

**TOWN OF LONGBOAT KEY**

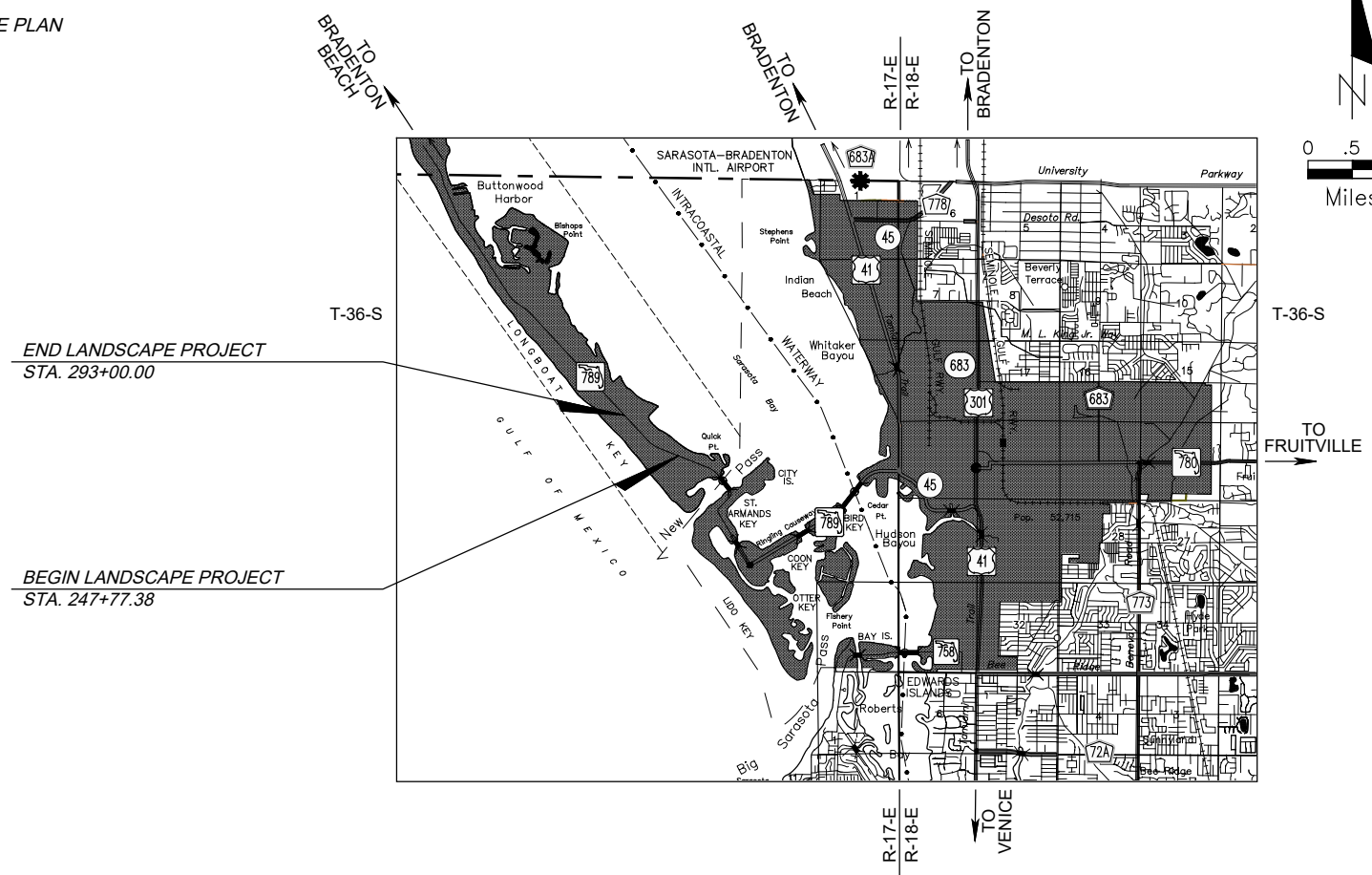
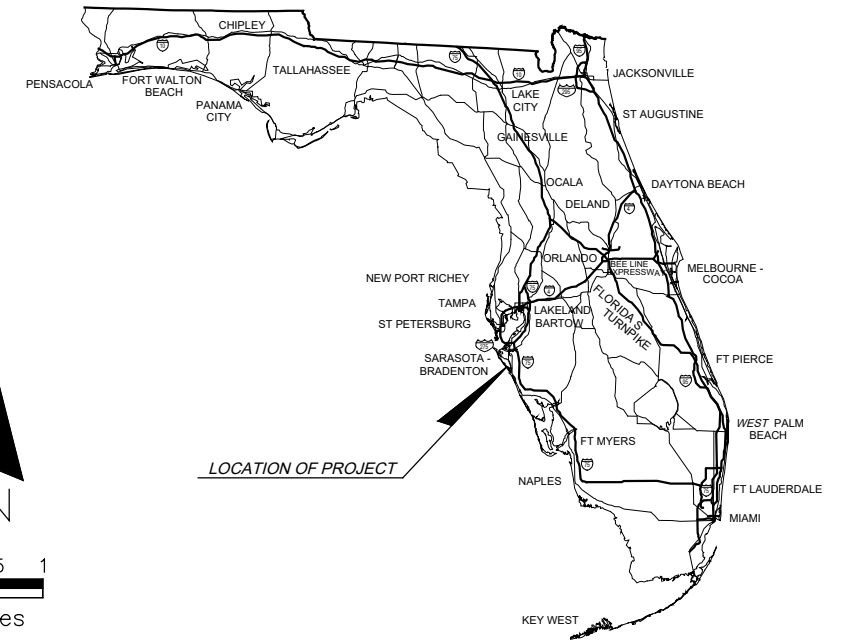
**CONTRACT PLANS**

SARASOTA COUNTY  
STATE ROAD NO. SR-789

**LANDSCAPE PLANS**

**INDEX OF LANDSCAPE PLANS**

SHEET NO.	SHEET DESCRIPTION
LD-01	KEY SHEET
LD-02	TABULATION OF QUANTITIES
LD-03	GENERAL NOTES AND PAY ITEM NOTES
LD-04 - LD-12	TREE PROTECTION / REMOVAL PLANS
LD-13	TREE PROTECTION DETAILS
LD-14- LD-22	LANDSCAPE PLANS
LD-23 - LD-26	LANDSCAPE DETAILS
LD-27 - LD-35	IRRIGATION PLANS
LD-36 - LD-37	IRRIGATION DETAILS
LD-38	IRRIGATION NOTES
LD-39	TECHNICAL MAINTENANCE PLAN



**100% PLANS**

THE ABOVE NAMED REGISTERED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE INDEX OF SHEETS SHOWN ON THIS KEY SHEET IN ACCORDANCE WITH THE RULE 61G10-11.011, F.A.C.

**LANDSCAPE PLANS  
LANDSCAPE ARCHITECT OF RECORD:**

PHILLIP J. SMITH, R.L.A.  
R.L.A. NO. 1096  
DAVID W JOHNSTON ASSOCIATES, INC.  
630 SOUTH ORANGE AVE., SUITE 202  
SARASOTA, FLORIDA 34236  
(941) 366-3159  
VENDOR NO. 59-2217674  
CERTIFICATE OF AUTHORIZATION NO. LCC 000083

**TOWN OF LONGBOAT KEY PROJECT MANAGER:**  
ISAAC BROWNMANN, P.E.

**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following web site: <http://www.fdot.gov/design/standardplans>

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

DESIGN SPEED 40 MPH

**FINAL CIVIL REVIEW COMMENTS**

Cover LD-01, Tabulation of Quantities LD-02, Tree Protection Plan Sheets LD-04 thru LD-12, Planting Plan Sheets LD-14 thru LD-22, Irrigation Plan Sheets LD-27 thru LD-35. Design Speed 40 MPH, Type D curb replaced Type A curb, (Revised 10-05-20).

**REVISED COVER SHEET**

Revised dates of Governing plans and standard specifications.

FISCAL YEAR	SHEET NO.
23	LD-01

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

## TABULATION OF QUANTITIES AND SCHEDULE FOR SELECTIVE CLEARING AND GRUBBING AND TREE PROTECTION

PAY ITEM NO.	SYM.	NAME	REMARKS	UNIT	SHEET NUMBERS																GRAND TOTAL			
					LD-04		LD-05		LD-06		LD-07		LD-08		LD-09		LD-10		LD-11		LD-12		PLAN	FINAL
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
110-2-A	-	Selective Clearing and Grubbing	Tree Protection, Tree Barricades, Removal and Selective Pruning	LS	1		1		1		1		1		1		1		1		1		1	

## TABULATION OF QUANTITIES AND PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM.	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS																GRAND TOTAL			
									LD-14		LD-15		LD-16		LD-17		LD-18		LD-19		LD-20		LD-21		LD-22		PLAN	FINAL
									PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
580-1-2	LARGE	TR	Thrinax radiata 'Silver'	Florida Thatch Palm	8' O.A.H.	40' o.c.	B&B, Matched	EA	-		-		-		-		-		-		7		-		7			
580-1-1	SMALL	AL	Aechmea blanchetiana 'Lime Green'	Lime Bromeliad	18" x 18" Spr.	30" o.c.	7 Gal.	EA	-		-		30		-		-		-		30		-		-		60	
580-1-1	SMALL	AO	Aechmea blanchetiana 'Orangeade'	Orangeade Bromeliad	18" x 18" Spr.	30" o.c.	7 Gal.	EA	-		22		-		-		35		12		54		-		-		123	
580-1-1	SMALL	AR	Alcantarea imperialis 'Rubra'	Rubra Imperial Bromeliad	12" x 12" Spr.	18" o.c.	1 Gal.	EA	-		-		117		-		-		119		270		-		-		506	
580-1-1	SMALL	BY	Bulbine frutescens 'Yellow African'	Bulbine	8" x 12" Spr.	12" o.c.	1 Gal.	EA	-		134		142		-		-		281		-		-		-		557	
580-1-1	SMALL	EL	Ernodea littoralis	Golden Creeper	12" x 12" Spr.	18" o.c.	1 Gal.	EA	-		89		-		-		126		142		145		-		-		502	
580-1-1	SMALL	NC	Neoregelia cruenta 'Rubra'	Cruenta Bromeliad	12" x 12" Spr.	18" o.c.	1 Gal.	EA	-		32		-		-		29		15		17		-		-		93	
580-1-1	SMALL	TV	Tulbaghia violacea	Society Garlic	-	12" o.c.	1 Gal.	EA	-		7		7		-		-		14		-		-		-		28	
580-1-1	SMALL	ZF	Zamia floridana	Coontie	24" x 24" Spr.	30" o.c.	10 Gal.	EA	-		39		-		-		51		-		192		-		-		282	
570-1-2	-	MM	Mulch	Recycled Melaleuca Mulch	3" Depth	-	-	CY	-		△10.2		△7.4		-		△10.8		△14.8		△30.6		-		△73.8			

## TABULATION OF QUANTITIES AND SCHEDULE FOR IRRIGATION AND SITE AMENITIES

PAY ITEM NO.	SYM.	NAME	REMARKS	UNIT	SHEET NUMBERS																GRAND TOTAL							
					LD-04		LD-05		LD-06		LD-07		LD-08		LD-09		LD-10		LD-11		LD-12		PLAN	FINAL				
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL								
162-1-11	-	Blanket Soil Layer	Blanket Soil layer is 6" Lifts (30" Depth for Planting Beds in Median Areas)	SY	-		△612		△445		-		-		△670		△885		△1834		-		△4446					
580-2-2	-	Landscape Relocate Tree	Transplanted	EA	-		-		-		-		-		-		-		-		-		-		-			

PAY ITEM NO.	SYM.	NAME	REMARKS	UNIT	SHEET NUMBERS																GRAND TOTAL					
					LD-14		LD-15		LD-16		LD-17		LD-18		LD-19		LD-20		LD-21		LD-22		PLAN	FINAL		
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
590-70	-	Irrigation System	Complete Operational Irrigation System	LS	-		1		1		-		-		1		1		1		-		1			

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TABULATION OF QUANTITIES**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-02**

# GENERAL NOTES:

1. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
2. CONTRACTORS ARE ADVISED TO REFER TO THE STANDARD F.D.O.T. SPECIFICATIONS, CONTRACT DOCUMENTS AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.
3. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CHECK WITH THE JOB SITE SUPERINTENDENT, SUNSHINE STATE ONE, AND THE TOWN OF LONGBOAT KEY FOR LOCATION OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK.
4. ALL SOD INDICATED SHALL BE ARGENTINE BAHIA SAND GROWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN SOD AREAS. HAND RAKE PRIOR TO INSTALLING SOD. CONTRACTOR TO CUT AND MATCH IN ALL NEW SOD TO EXISTING SOD. STAGGER AND KICK ALL JOINTS TIGHT. ALL SOD TO BE ROLLED IMMEDIATELY AFTER INSTALLATION. CONTRACTOR IS RESPONSIBLE TO WATER ALL SOD TO ESTABLISH
5. CONTRACTOR SHALL APPLY MINIMUM 2 APPLICATIONS OF GLYPHOSATE HERBICIDE ON EXISTING TURF WHERE IT IS REQUIRED TO BE REMOVED FOR PLANTING. THE GLYPHOSATE HERBICIDE MUST BE SPRAYED PRIOR TO COMMENCING ANY GRADING OPERATIONS. CONTRACTOR SHALL REVIEW TURF KILL WITH ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT FOR APPROVAL. ALL HERBICIDES MUST BE APPLIED BY LICENSED APPLICATORS PER MANUFACTURERS RECOMMENDED RATES AND INSTRUCTIONS. POST ALL APPLICATIONS. PLANTING IN WEED INFESTED SOIL IS NOT ACCEPTABLE.
6. ANY EXCESS SOIL OR DEBRIS FROM CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND TAKEN TO THE COUNTY LAND FILL OR OTHER LOCATION AS APPROVED.
7. CONTRACTOR SHALL REPAIR ALL DISTURBED UNPAVED AREAS WITH EITHER SEED, MULCH OR SOD DURING THE COMPLETION OF WORK INCLUDING RESODDING OF IRRIGATION TRENCHES AND PLANTING PITS RESULTING FROM MATERIAL RELOCATIONS.
8. THE CONTRACTOR SHALL INCORPORATE ABSORBENT HYDROGEL GRANULES INTO ALL PLANTING PITS.
9. CONTRACTOR SHALL STAKE ALL TREES AS PER FDOT STANDARD INDEX DETAILS.
10. ALL PLANT MATERIAL SHALL BE FERTILIZED ACCORDING TO THE FERTILIZATION CHART.
11. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS CREATED BY THE CONSTRUCTION. THIS SHALL INCLUDE ALL SOD AND HAND RAKING TO RESTORE A SMOOTH UNIFORM SURFACE. ALSO REMOVAL OF ANY DEBRIS ENCOUNTERED OR CREATED FROM CONSTRUCTION OPERATIONS. ANY MATERIAL REMOVED FROM THE SITE SHALL BE TAKEN TO A SANITARY LANDFILL OR OTHER APPROVED LOCATION.
12. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING ANY WORK. THIS INCLUDES ALL TREE REMOVAL PERMITS FROM THE TOWN OF LONGBOAT KEY PRIOR TO COMMENCEMENT OF DEMOLITION.
13. A MAINTENANCE PERIOD SHALL BEGIN ONCE SUBSTANTIAL COMPLETION HAS BEEN MADE AND AGREED TO BY THE ENGINEER, AND TOWN OF LONGBOAT KEY IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT. THE MAINTENANCE SHALL CONTINUE UNTIL FINAL ACCEPTANCE.
14. FINAL ACCEPTANCE WILL OCCUR AFTER THE OWNER HAS ACCEPTED THE JOB.
15. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND WRITTEN SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL BY ENGINEER, AND TOWN OF LONGBOAT KEY IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT.
16. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS.
17. A MINIMUM 6' SEPARATION IS REQUIRED BETWEEN UTILITIES AND ALL TREE PLANTINGS. REFER TO ROADWAY PLANS FOR UTILITY LOCATIONS.

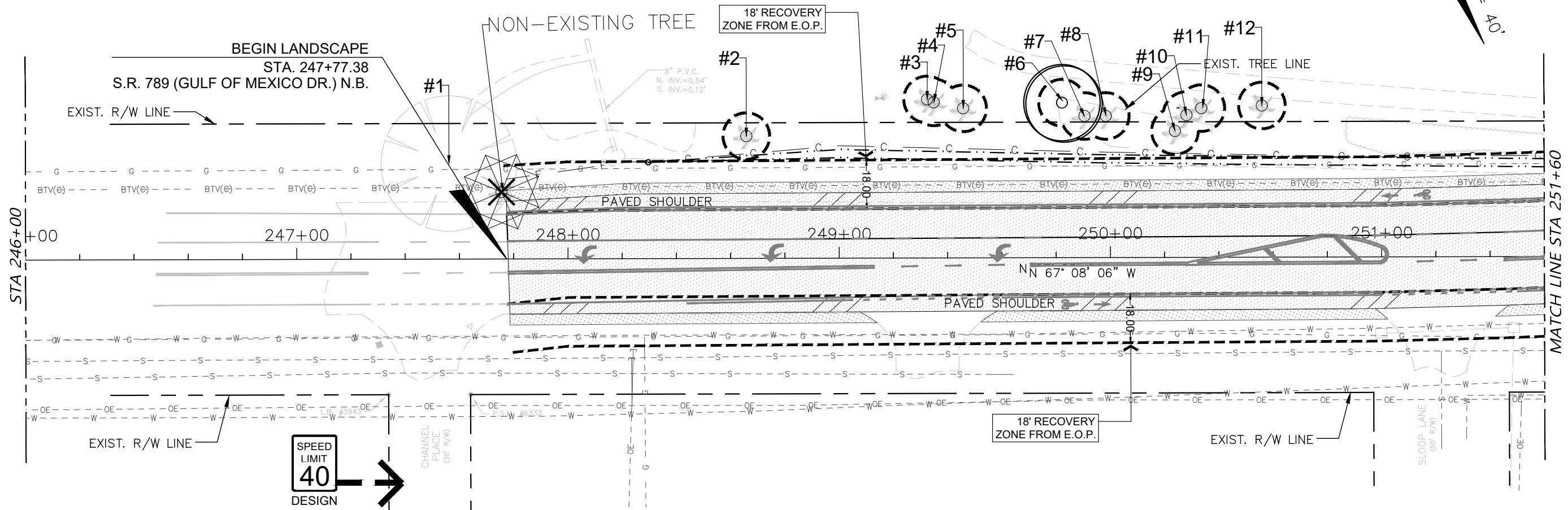
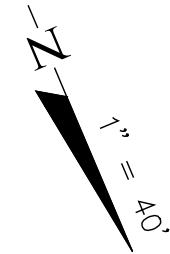
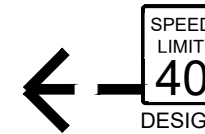
18. ALL TREE MATERIALS TO BE CONTAINER GROWN UNLESS OTHERWISE SPECIFIED.
19. CONTRACTOR SHALL WARRANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY ENGINEER, AND TOWN OF LONGBOAT KEY IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL ANALYSIS PRIOR TO INSTALLATION OF PLANTINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT OF ANY IMPROPER SOIL CONDITIONS (WETNESS, MUCK, DEBRIS, ETC.) PRIOR TO INSTALLATION. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL AMENDMENTS REQUIRED TO PROMOTE HEALTHY, VIGOROUS PLANT GROWTH.
21. SOD TO INCLUDE ALL DISTURBED AREAS THAT ARE NOT LANDSCAPED OR HARDSCAPED. CONTRACTOR SHALL VERIFY SOD QUANTITIES AND ALL OTHER QUANTITIES IDENTIFIED ON SCHEDULE. NOTIFY OWNER'S REP OF ANY DISCREPANCIES PRIOR TO BIDDING. QUANTITIES LISTED ON PLANS ARE PROVIDED FOR CONTROL PURPOSES ONLY.
22. ALL BASE MATERIAL BENEATH EXISTING CONCRETE MUST BE REMOVED ANYWHERE FUTURE PLANTING AND/OR SODDING IS TO TAKE PLACE PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE FINE GRADING OF PLANTING AREAS TO ENSURE AT LEAST 3% POSITIVE DRAINAGE AWAY FROM BUILDINGS AND INTO TURF AREAS, PONDS, STREETS OR OTHER DRAINAGE WAYS. TURF AND PLANTING BEDS SHALL MEET SIDEWALKS AND FLATWORK AT 1" BELOW THE FLATWORK.
24. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED OR REMOVED LANDSCAPE AFFECTED BY CONSTRUCTION AND NOT DELINEATED ON THE DEMOLITION PLANS.
25. CONTRACTOR IS RESPONSIBLE FOR ERECTING AND MAINTAINING ANY AND ALL BARRIERS NECESSARY TO PROTECT EXISTING TREES FROM DAMAGE DURING CONSTRUCTION.
26. ALL LANDSCAPE AND IRRIGATION MATERIALS PROPOSED IN OR AROUND EXISTING VEGETATION ARE TO BE FIELD LOCATED FOR APPROVAL BY ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. EXISTING VEGETATION IS NOT TO BE DAMAGED OR IMPACTED IN ANY WAY DURING CONSTRUCTION.
27. PRICING OF PLANT MATERIAL SHALL INCLUDE: PLANTS, PLANTING SOIL MIX, AMENDMENTS, INSTALLATION LABOR AND MATERIALS, STAKING, FERTILIZER, AND MAINTENANCE UNTIL FINAL ACCEPTANCE. PLANT QUANTITIES ARE PROVIDED FOR CONTROL PURPOSES ONLY, AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO BIDDING.
28. ALL PLANTINGS INSTALLED SHALL BE COVERED BY A 100% COVERAGE AUTOMATIC IRRIGATION SYSTEM.
29. ALL PLANTING BEDS, TREES AND PALMS SHALL BE MULCHED WITH FLORAMULCH UNLESS OTHERWISE INDICATED ON PLANS AT A MINIMUM WETTED DEPTH OF 3" . CONTRACTOR SHALL PREPARE ALL PLANTING AREAS BY REMOVING ALL WEEDS & DEBRIS AND PROVIDING A FINISH GRADE SUITABLE FOR PLANTING. COMPLETE FINISH GRADE SHALL BE MAINTAINED BY THE CONTRACTOR BY HAND GRADING AS NEEDED PRIOR TO INSTALLING ANY MULCH. WHERE INDICATED ON PLANS, SHELL AGGREGATE SHALL BE 0.5"-1.0" SIZE, CRUSHED, WASHED SHELL. WEED BARRIER IS INCIDENTAL TO LANDSCAPE COMPLETE PAY ITEM. SUBMIT MULCH/SHELL SAMPLES TO THE ENGINEER IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT FOR APPROVAL.
30. APPLY GRANULAR PRE-EMERGENT WITH A PROPERLY CALIBRATED GRANULAR APPLICATOR TO ALL PLANTING BEDS AND INDIVIDUAL MULCH RINGS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE HERBICIDE SHALL BE APPLIED BY HAND AFTER PLANTING AND BEFORE PLACING MULCH. APPLY AT THE MANUFACTURER'S RECOMMENDED RATE FOR SQ. FT. OF PLANTED AREA SPECIFIED. DO NOT APPLY PRE-EMERGENT CHEMICAL DIRECTLY ON PLANT MATERIAL. ALL APPLICATORS SHALL BE PROPERLY LICENSED IN ACCORDANCE WITH STATE LAW. SUBMIT PROOF OF LICENSURE FOR REVIEW BY LANDSCAPE ARCHITECT. SUBMIT MANUFACTURER'S CUT SHEET FOR APPROVAL.

# PAY ITEM NOTES:

- 110-2-A FURNISH ALL LABOR, MATERIALS AND INCIDENTALS TO PROTECT TREES AND SELECTIVELY PRUNE CERTAIN TREES PER STANDARD INDEX 100-110. THIS PAY ITEM SHALL INCLUDE THE MAINTENANCE OF ALL PROTECTIVE BARRIERS AND THE REMOVAL, DISPOSAL OF ALL DEBRIS REMOVED OR TRIMMED FROM SELECTIVE PRUNING.
- 580-1-1 & 580-1-2 FURNISH ALL EQUIPMENT, MATERIALS, LABOR, DISPOSAL, AND INCIDENTALS NECESSARY TO COMPLETE LANDSCAPE INSTALLATION, INCLUDING BED PREPARATION, PLANTING SOIL AMENDMENTS, FERTILIZERS, SOIL INOCULANTS, TREE PLANTING, MULCHING, HERBICIDE AND PESTICIDE APPLICATIONS, AND MAINTENANCE UNTIL FINAL ACCEPTANCE.
- THIS PAY ITEM SHALL INCLUDE THE ESTABLISHMENT/MAINTENANCE PERIOD FOR ALL PLANTS, SOD, MULCH AND IRRIGATION UNTIL FINAL ACCEPTANCE.
- PLANTING SOIL BACKFILL SHALL BE AS FOLLOWS:  
 25% CLEAN MEDIUM SOIL THOROUGHLY WITH  
 75% BATCH-PREPARED SOIL BLEND CONSISTING OF:  
 85% SAND (0.5mm TO 2.0mm PARTICLE SIZE)  
 4%-5% SILT (0.005mm TO 0.05mm PARTICLE SIZE)  
 6%-8% CLAY (0.002mm PARTICLE SIZE)  
 2%-5% ORGANIC MATTER
- THE RESULTING PLANTING SOIL BACKFILL SHALL BE SUPPLEMENTED AS NECESSARY WITH ADDITIONAL ORGANIC MATERIAL TO ACHIEVE A pH OF 6.0-7.0. THESE REQUIREMENTS SHALL BE VERIFIED BY AN INDEPENDENT SOIL TESTING LABORATORY AT THE EXPENSE OF THE CONTRACTOR, AND A REPORT SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLANTING.
- ALL SUPPLEMENTAL WATER AND WATERING REQUIRED IS INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH OF THE DESIGNATED PLANTING PAY ITEMS. NO SEPARATE PAYMENT WILL BE MADE.
- PROVIDE SCHEDULE OF VALUES FOR ALL PLANT ITEMS PRIOR TO COMMENCEMENT OF WORK. PLANT VALUES SHALL INCLUDE ALL PLANTS DELIVERED TO THE SITE, BED PREPARATION, PLANTING, FERTILIZING, SOIL INOCULANTS, WATERING, AND MAINTAINING PER LANDSCAPE DETAILS AND THE LANDSCAPE MAINTENANCE PLAN. PROVIDE MANUFACTURER'S PRODUCT SHEETS FOR ALL SOIL ADDITIVES.
- 590-3 IRRIGATION CONTROLLER - THIS PAY ITEM SHALL INCLUDE ALL INCIDENTAL WORK TO INSTALL THE CONTROLLER INCLUDING ELECTRICAL WORK TO MAKE THE CONTROLLER FULLY OPERATIONAL.
- 590-70 THIS PAY ITEM SHALL INCLUDE ALL METERS/BACKFLOW PREVENTERS AND INCIDENTAL ITEMS NECESSARY FOR THE IRRIGATION WATER SUPPLY INCLUDING RESTORATION.

No.	REVISION	DATE	BY	TOWN OF LONGBOAT KEY DEPARTMENT OF PUBLIC WORKS 600 GENERAL HARRIS STREET LONGBOAT KEY, FL., 34228	 DAVID W. JOHNSTON ASSOCIATES 660 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5166	DATE	05/09/19	CKD BY		DATE		TOWN OF LONGBOAT KEY S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS GENERAL NOTES AND PAYITEM NOTES	LANDSCAPE ARCHITECT OF RECORD	SHEET No.
						DRAWN	KSR	JA	05/19				PHILLIP J. SMITH ASLA RLA #1096 REGISTERED LANDSCAPE ARCHITECT	LD-03
						DESIGN	PJS	PJS	05/19					
						SCALE NOTED		DWJA NO.	19-20					
5	PER FINAL CIVIL REVIEW	10/05/20	KSR											

# S.R. 789 (GULF OF MEXICO DR.)



### TREE PROTECTION - REMOVAL LEGEND

- EXISTING TREE OR PALM TO BE REMOVED
- EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
- EXISTING TREE OR PALM TO BE RELOCATED

### TREE REMOVAL LEGEND

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	1		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

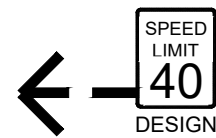
**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

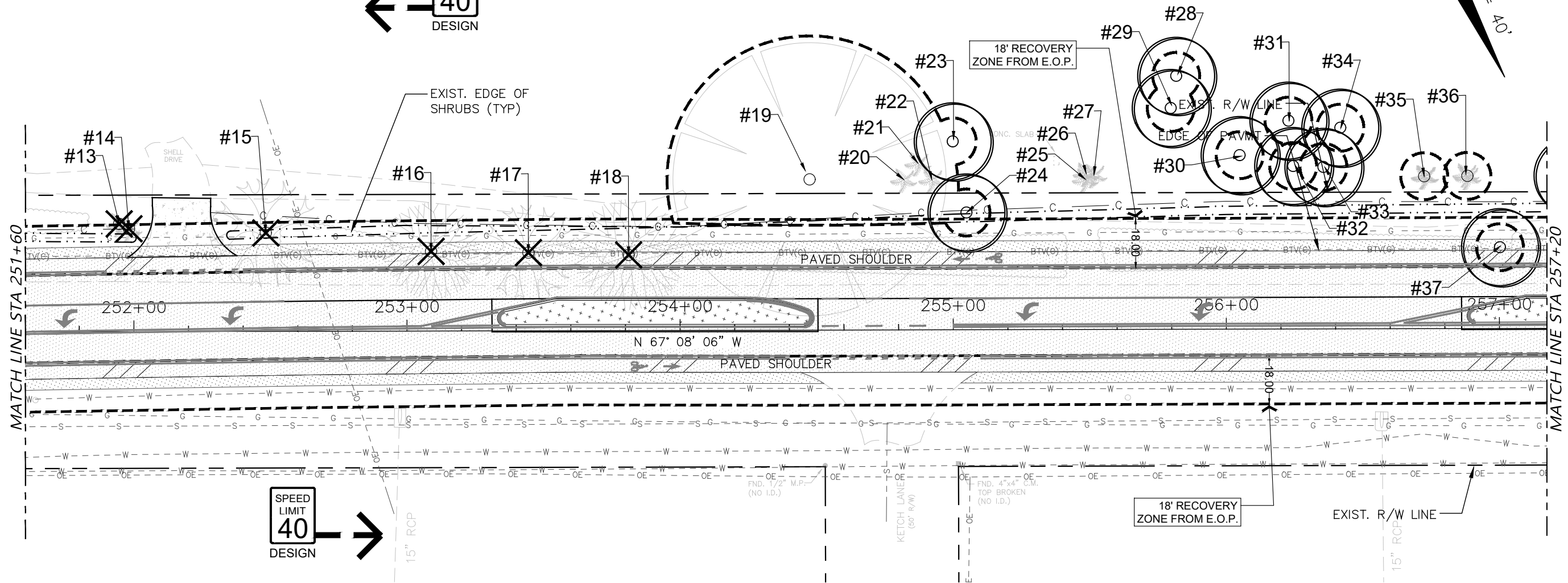
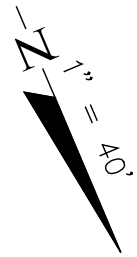
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-04**



S.R. 789 (GULF OF MEXICO DR.)



TREE PROTECTION - REMOVAL LEGEND	
	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
	EXISTING TREE OR PALM TO BE RELOCATED

TREE REMOVAL LEGEND			
	4"-15"	16"-30"	OVER 30"
JACARANDA	-	1	-
TREES	-	3	-
PALM	2	-	-
	-	-	-

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 555-3199

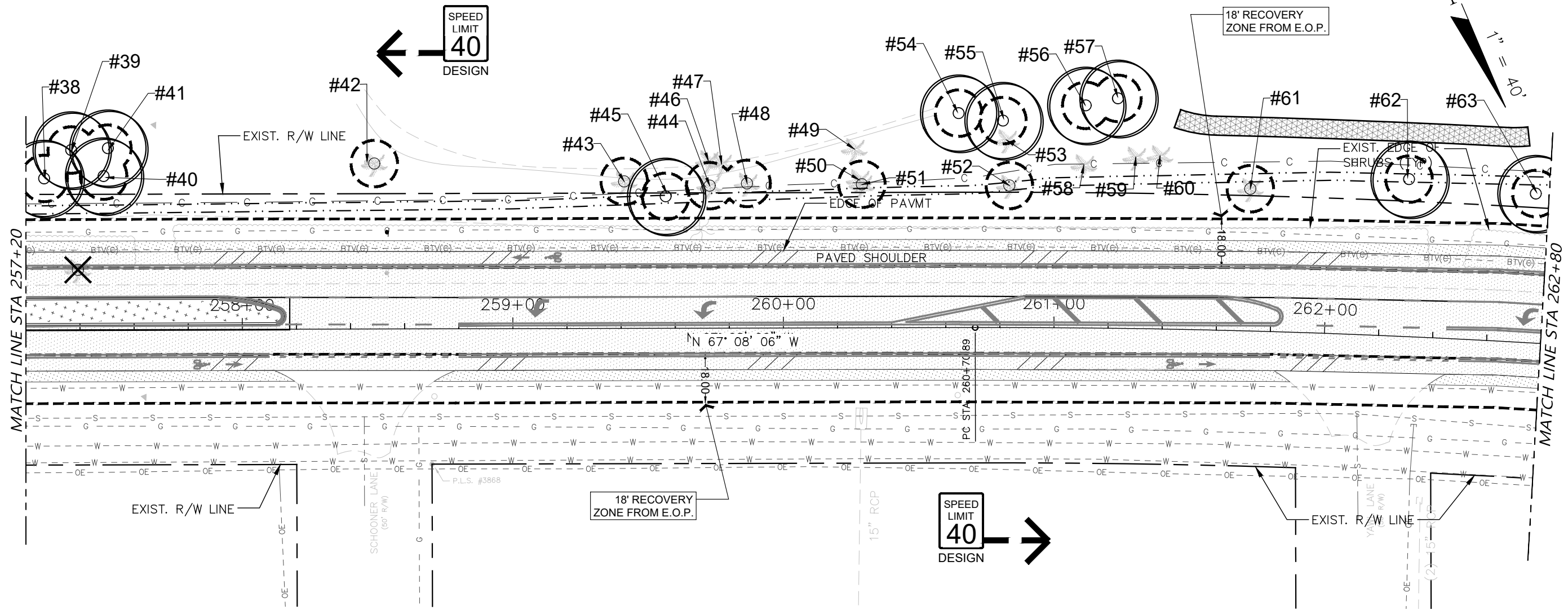
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**




LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-05**

# S.R. 789 (GULF OF MEXICO DR.)



**TREE PROTECTION - REMOVAL LEGEND**

-  EXISTING TREE OR PALM TO BE REMOVED
-  EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
-  EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	-		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

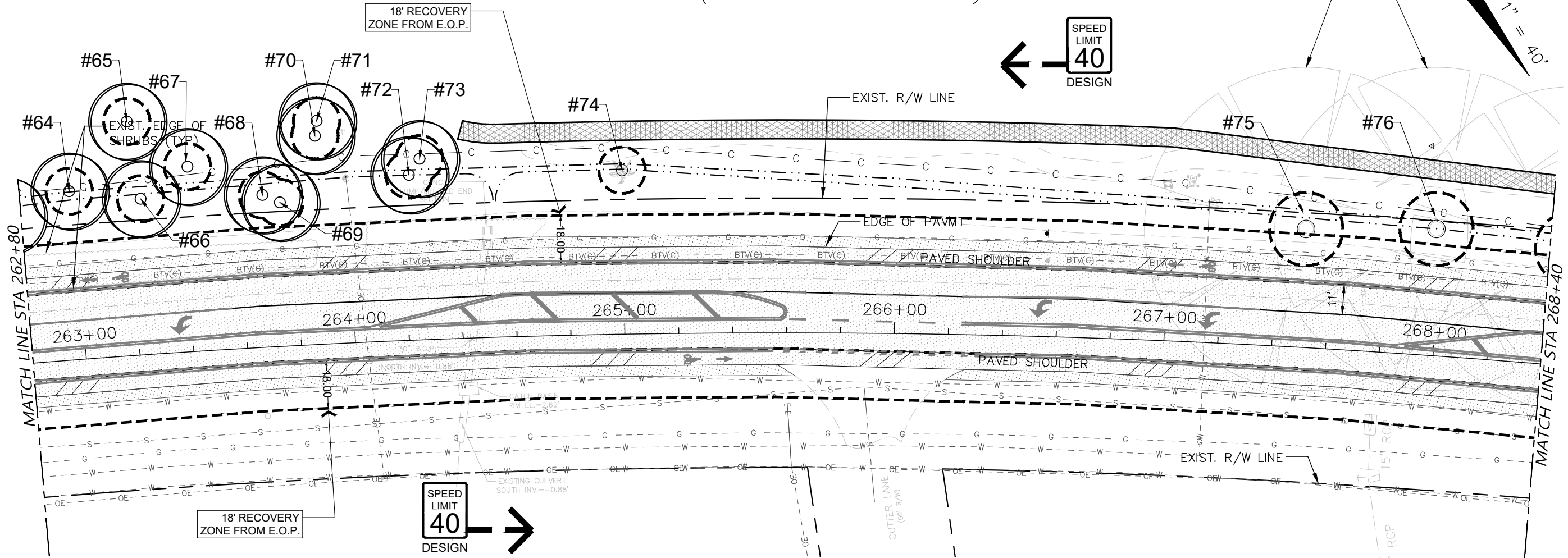
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT




SHEET No.  
**LD-06**

S.R. 789 (GULF OF MEXICO DR.)

EXIST. TREE TO REMAIN AND BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE. ALL PRUNING TO BE DONE BY AND I.S.A. CERTIFIED ARBORIST FOLLOWING ANSI A300 STANDARDS.



**TREE PROTECTION - REMOVAL LEGEND**

-  EXISTING TREE OR PALM TO BE REMOVED
-  EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
-  EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	-		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

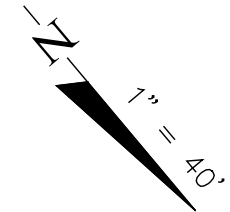
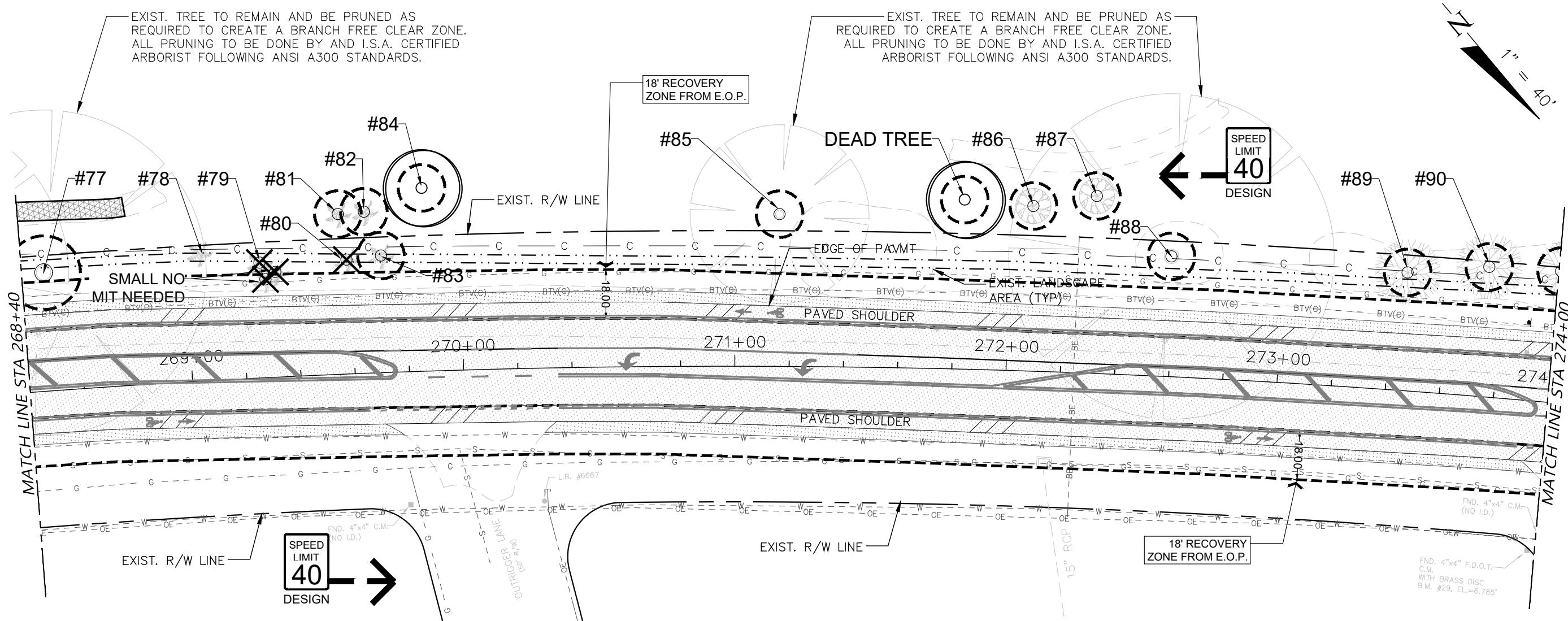
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-07**

S.R. 789 (GULF OF MEXICO DR.)



**TREE PROTECTION - REMOVAL LEGEND**

	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
	EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	1		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

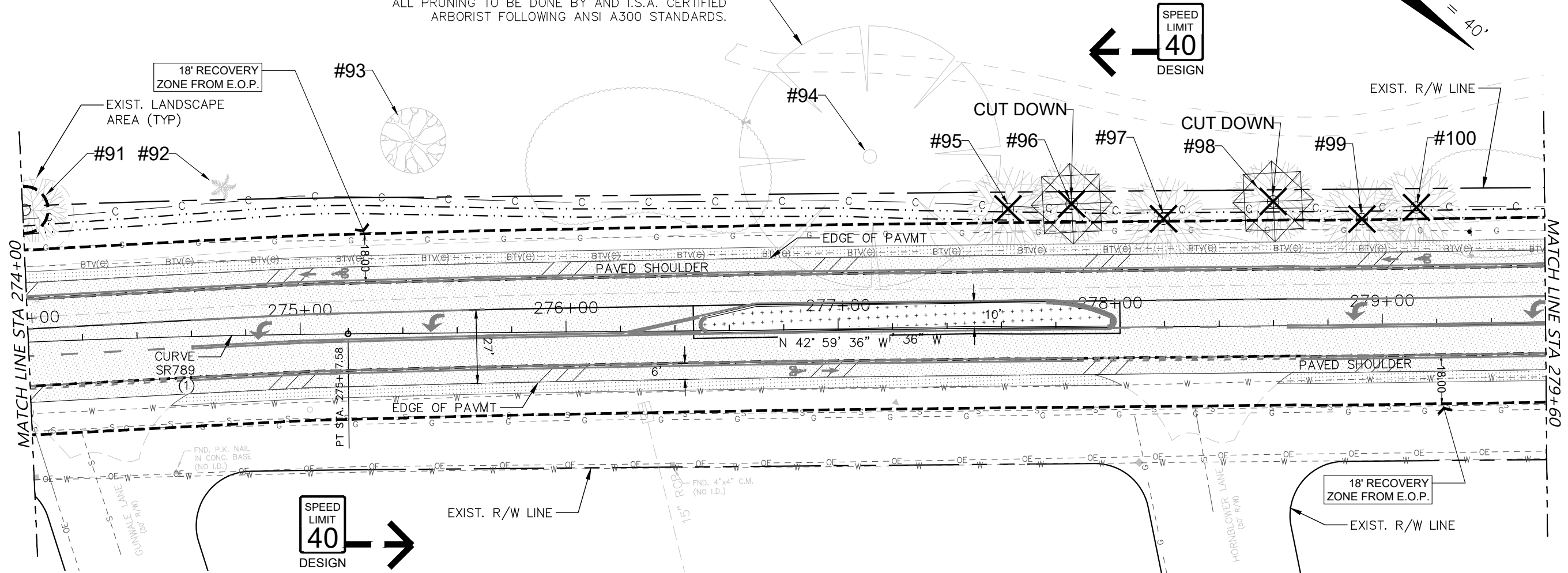
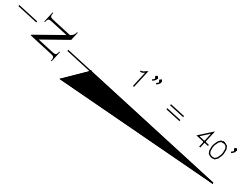
LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-08**






S.R. 789 (GULF OF MEXICO DR.)

EXIST. TREE TO REMAIN AND BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE. ALL PRUNING TO BE DONE BY AND I.S.A. CERTIFIED ARBORIST FOLLOWING ANSI A300 STANDARDS.



**TREE PROTECTION - REMOVAL LEGEND**

-  EXISTING TREE OR PALM TO BE REMOVED
-  EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
-  EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	4
PALM	-		

CALL 48 HOURS BEFORE YOU DIG



IT'S THE LAW!  
DIAL 811

Know what's below.  
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

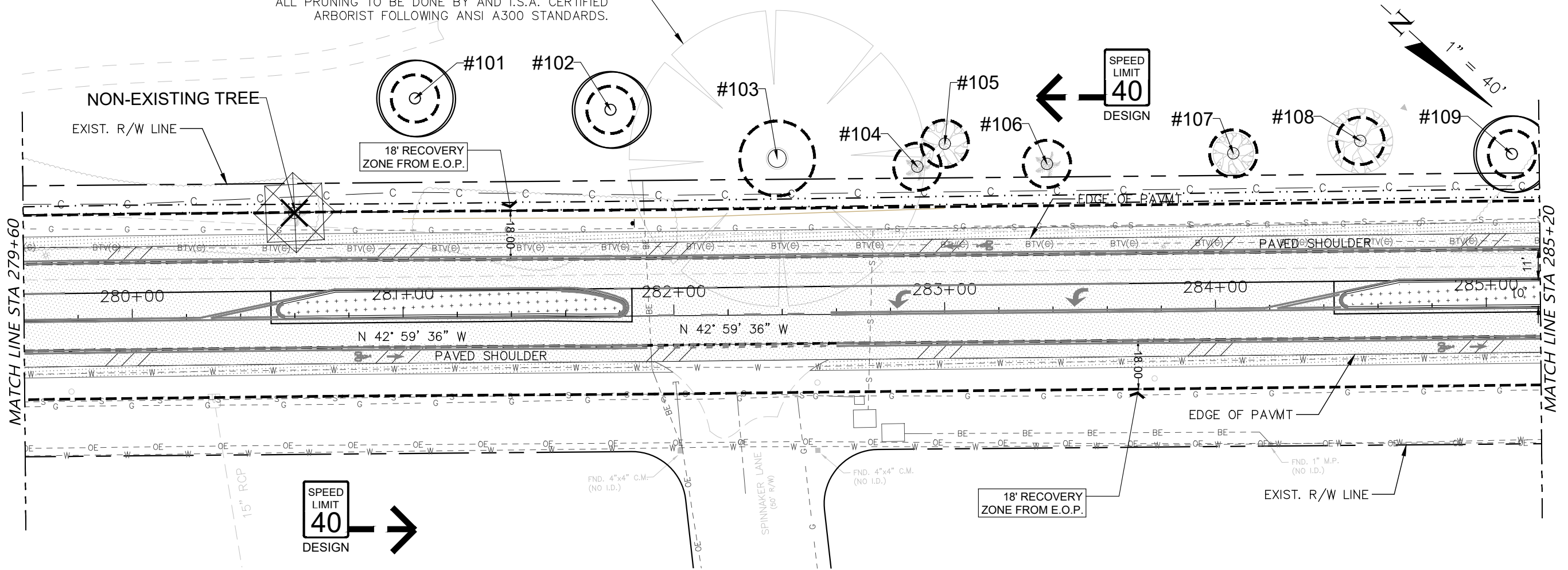
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-09**

S.R. 789 (GULF OF MEXICO DR.)

EXIST. TREE TO REMAIN AND BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE. ALL PRUNING TO BE DONE BY AND I.S.A. CERTIFIED ARBORIST FOLLOWING ANSI A300 STANDARDS.



**TREE PROTECTION - REMOVAL LEGEND**

	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
	EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	-	-	-

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
660 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	CKD. BY	DATE
05/09/19	JA	05/19
05/19	PJS	05/19

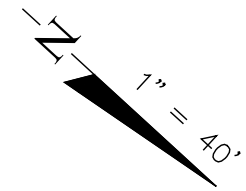
SCALE NOTED DWJA NO. 19-20

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

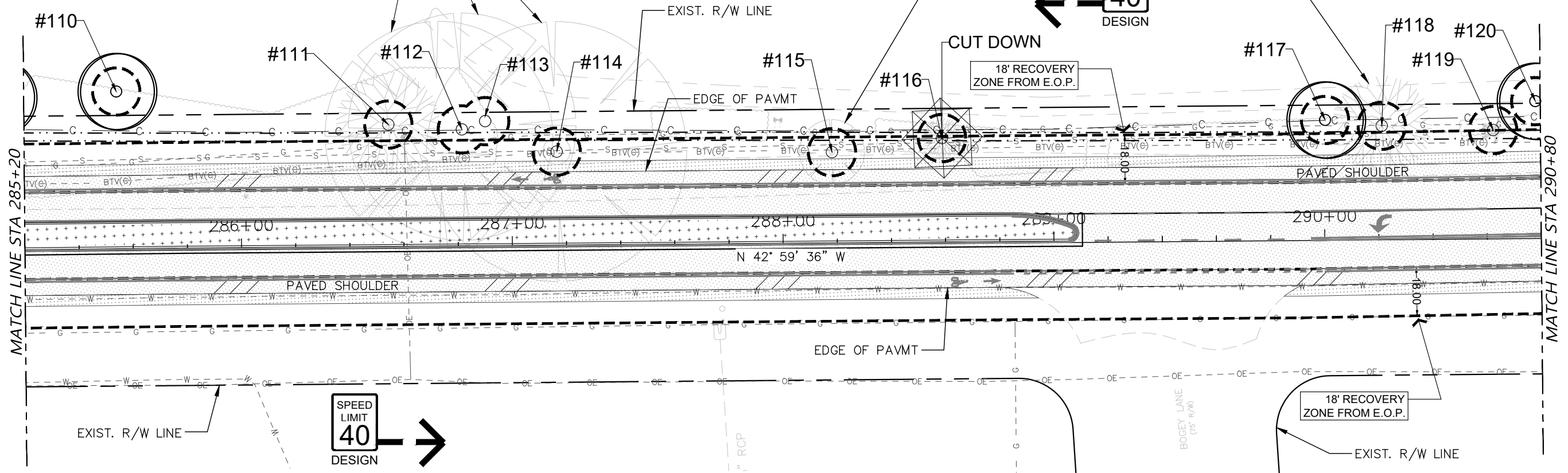
SHEET No.  
**LD-10**

S.R. 789 (GULF OF MEXICO DR.)






EXIST. TREE TO REMAIN AND BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE. ALL PRUNING TO BE DONE BY AND I.S.A. CERTIFIED ARBORIST FOLLOWING ANSI A300 STANDARDS.

EXIST. TREES TO BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE.



**TREE PROTECTION - REMOVAL LEGEND**

-  EXISTING TREE OR PALM TO BE REMOVED
-  EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
-  EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	-		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

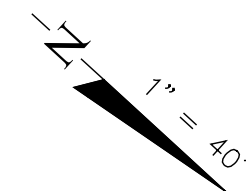
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

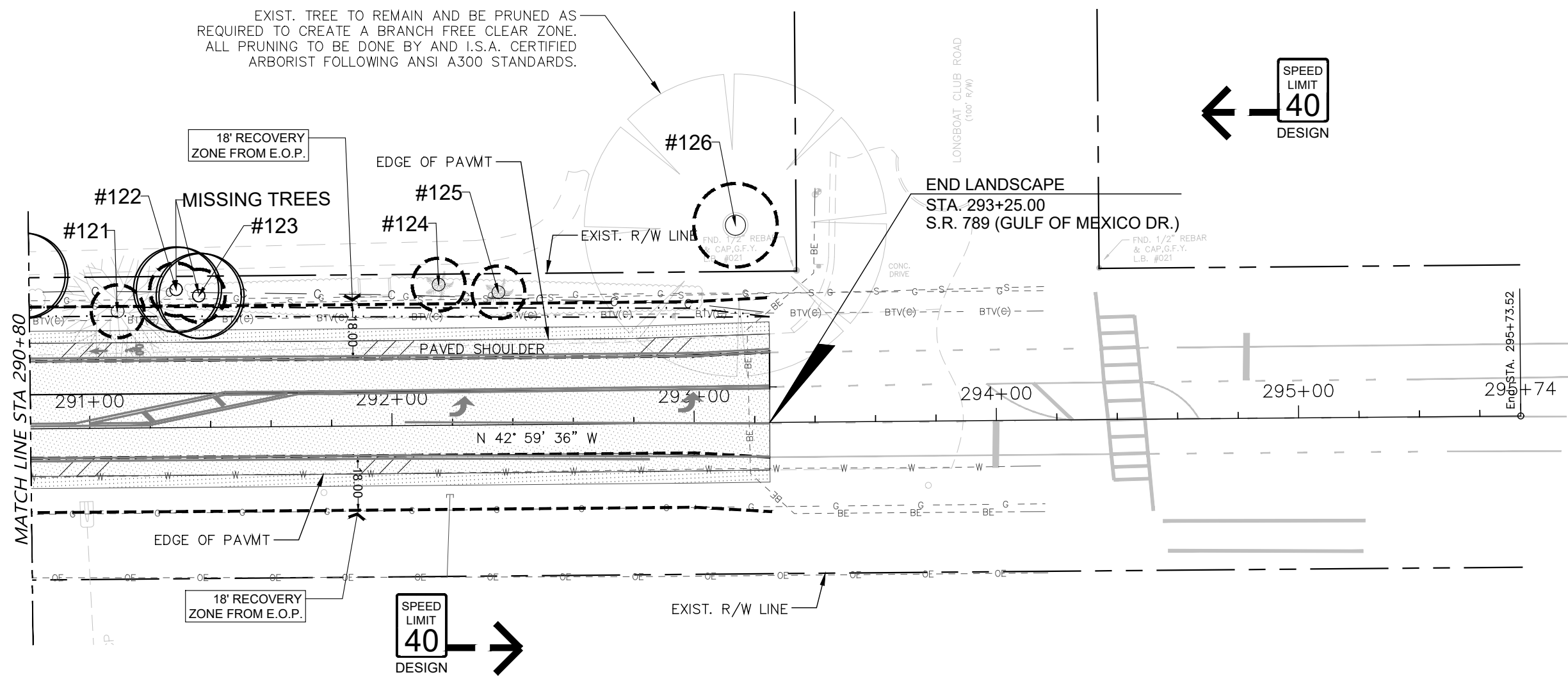
LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-11**

S.R. 789 (GULF OF MEXICO DR.)



EXIST. TREE TO REMAIN AND BE PRUNED AS REQUIRED TO CREATE A BRANCH FREE CLEAR ZONE. ALL PRUNING TO BE DONE BY AND I.S.A. CERTIFIED ARBORIST FOLLOWING ANSI A300 STANDARDS.



**TREE PROTECTION - REMOVAL LEGEND**

	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN WITH TREE BARRIER TYPICAL
	EXISTING TREE OR PALM TO BE RELOCATED

**TREE REMOVAL LEGEND**

	4"-15"	16"-30"	OVER 30"
TREES	-	-	-
PALM	-		

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

**811**

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
05/19	PJS	05/19

SCALE NOTED DWJA NO. 19-20

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TREE PROTECTION / REMOVAL PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-12**

TOWN OF LONGBOAT KEY TREE REMOVAL TABLE

TREE REMOVAL LEGEND			
	4"-15"	16"-30"	OVER 30"
FICUS TREE	-	-	-
LAUREL OAK	-	-	-
QUEEN PALM	-	-	-
* EXOTIC TREE TO BE REMOVED.			

NO TREE MITIGATION IS REQUIRED  
BECAUSE THE TREES BEING REMOVED  
ARE IN F.D.O.T. R.O.W.

PROTECT ALL TREES TO BE PRESERVED  
PER STANDARD F.D.O.T. INDEX 100-110.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



DATE	CKD. BY	DATE
05/09/19	JA	05/19
05/09/19	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

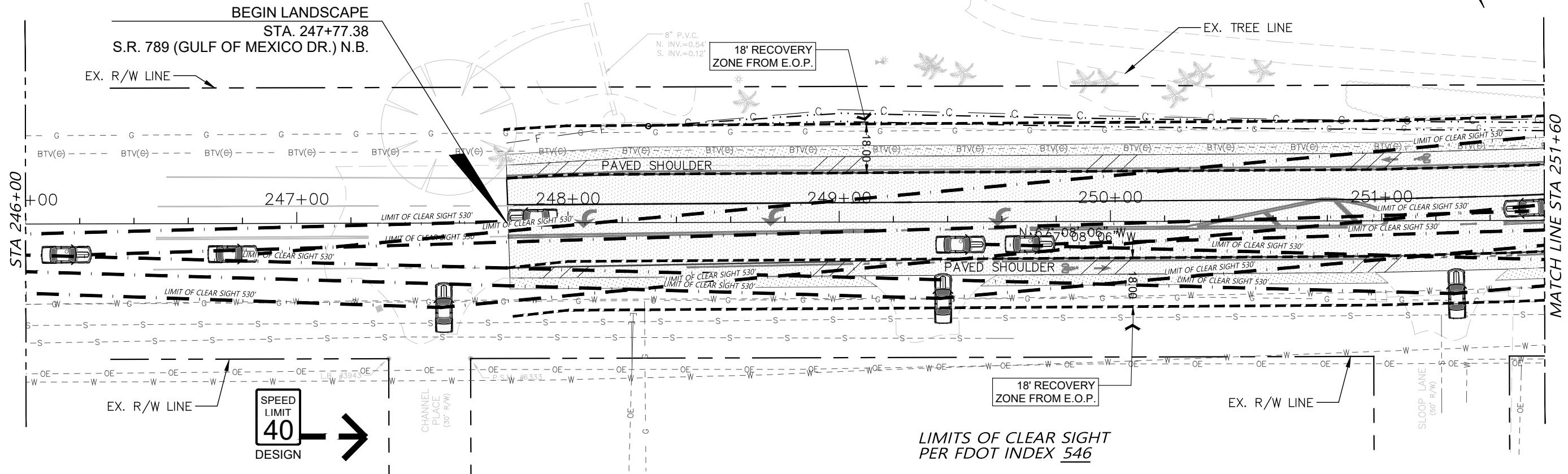
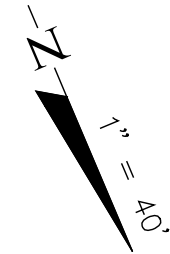
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
TREE PROTECTION PLAN

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-13**

# S.R. 789 (GULF OF MEXICO DR.)

← SPEED LIMIT 40 DESIGN



## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5199

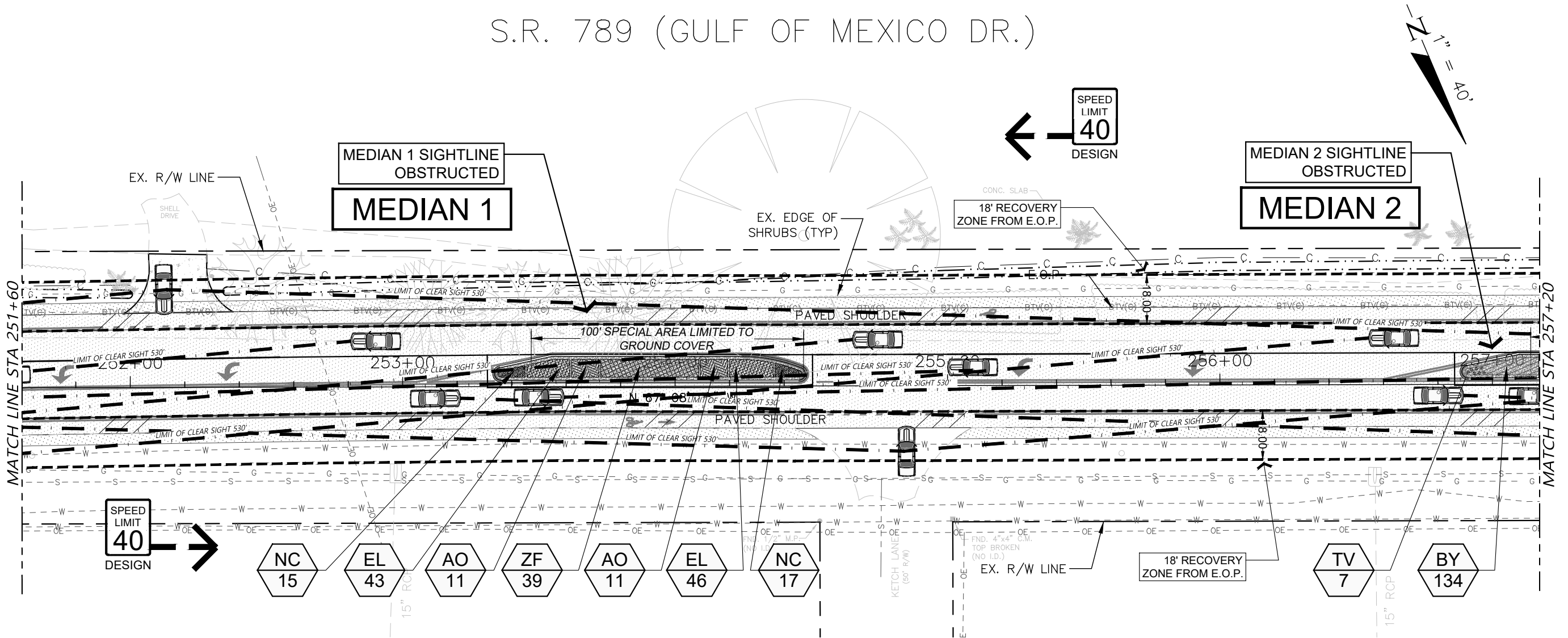
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**LANDSCAPE PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-14**

# S.R. 789 (GULF OF MEXICO DR.)



LIMITS OF CLEAR SIGHT PER FDOT INDEX 546

## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-6166

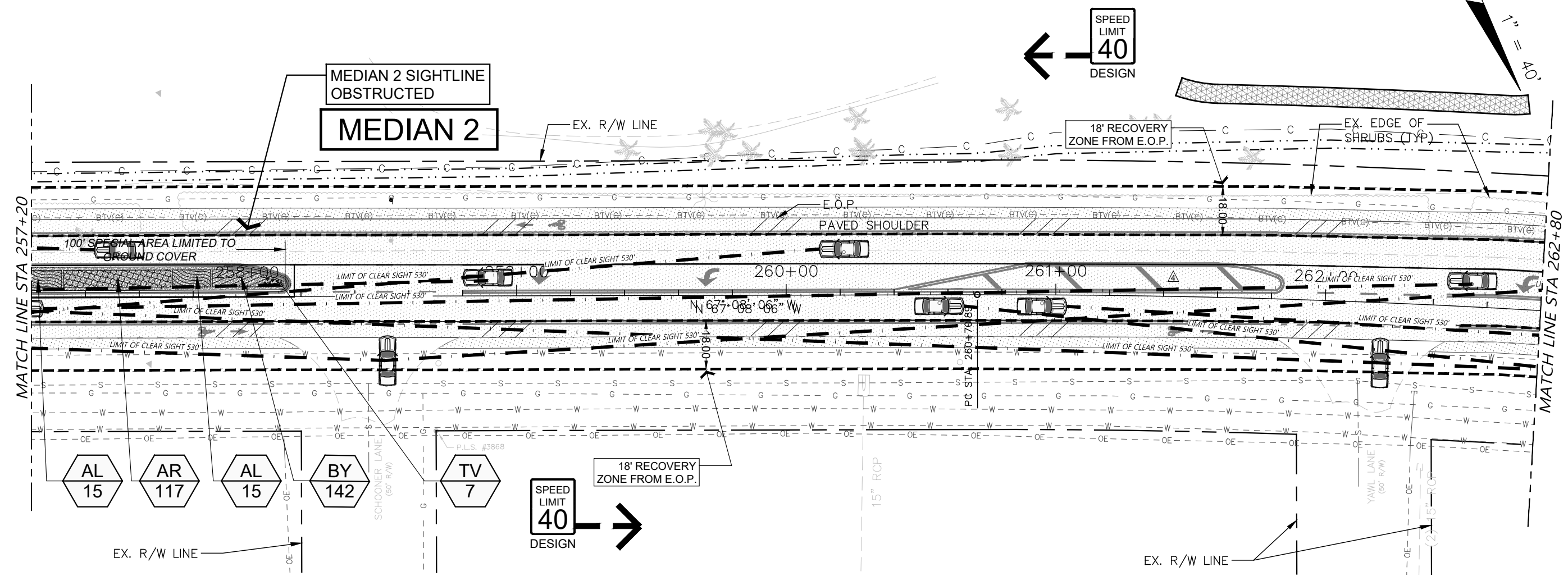
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN (Medians 1 and 2)

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-15**

# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

LIMITS OF CLEAR SIGHT PER FDOT INDEX 546

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

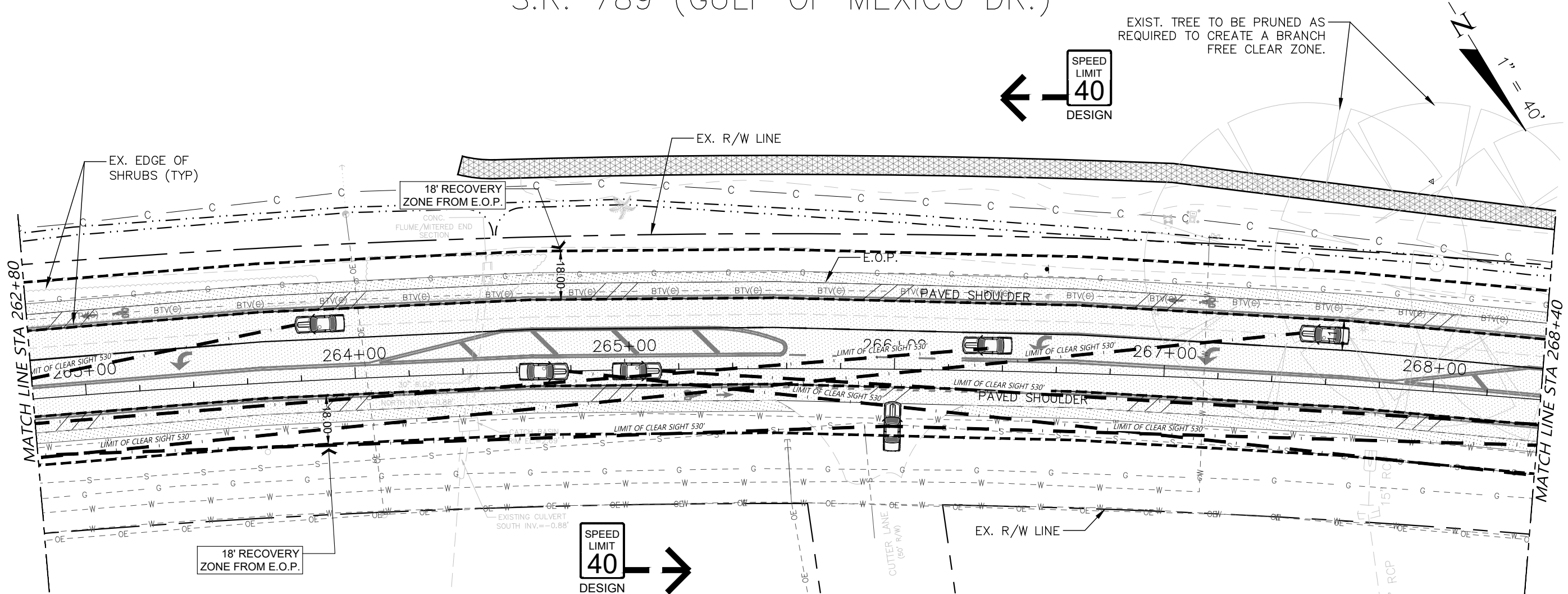
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN (Median 2)

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-16**



# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

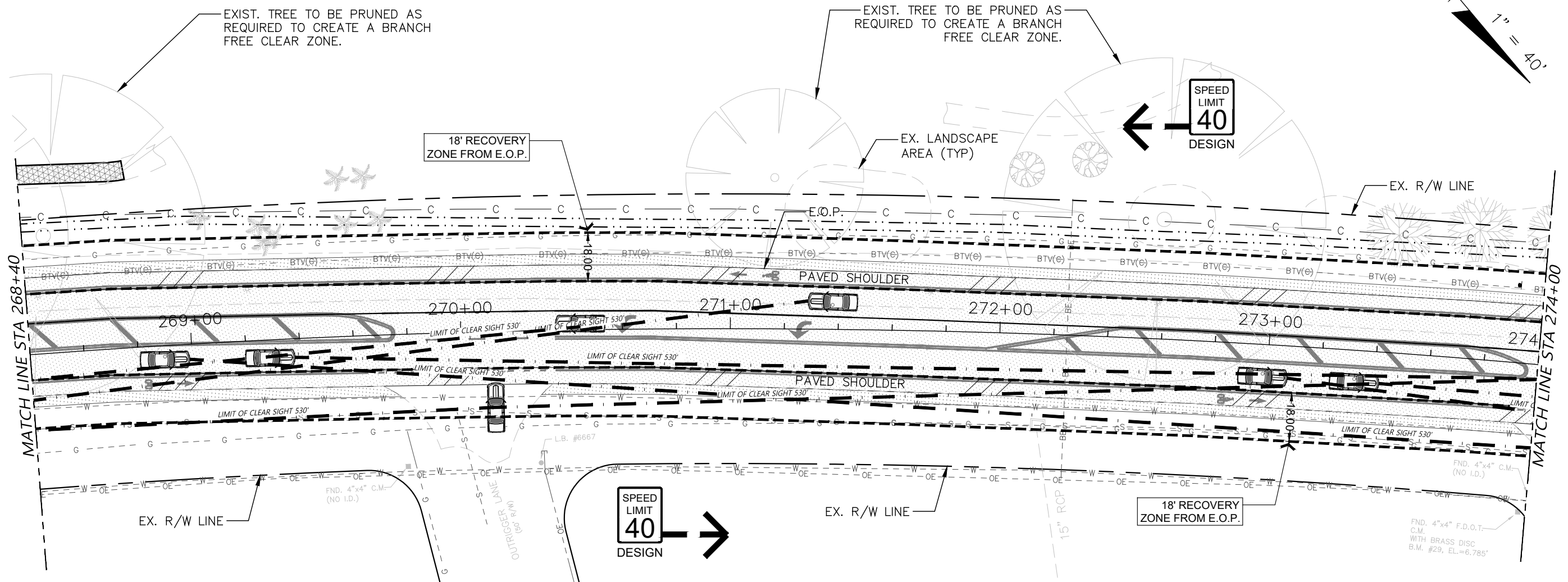
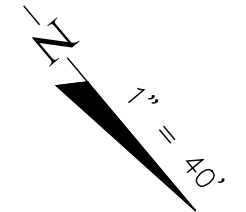
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**LANDSCAPE PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-17**

# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

LIMITS OF CLEAR SIGHT  
PER FDOT INDEX 546

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

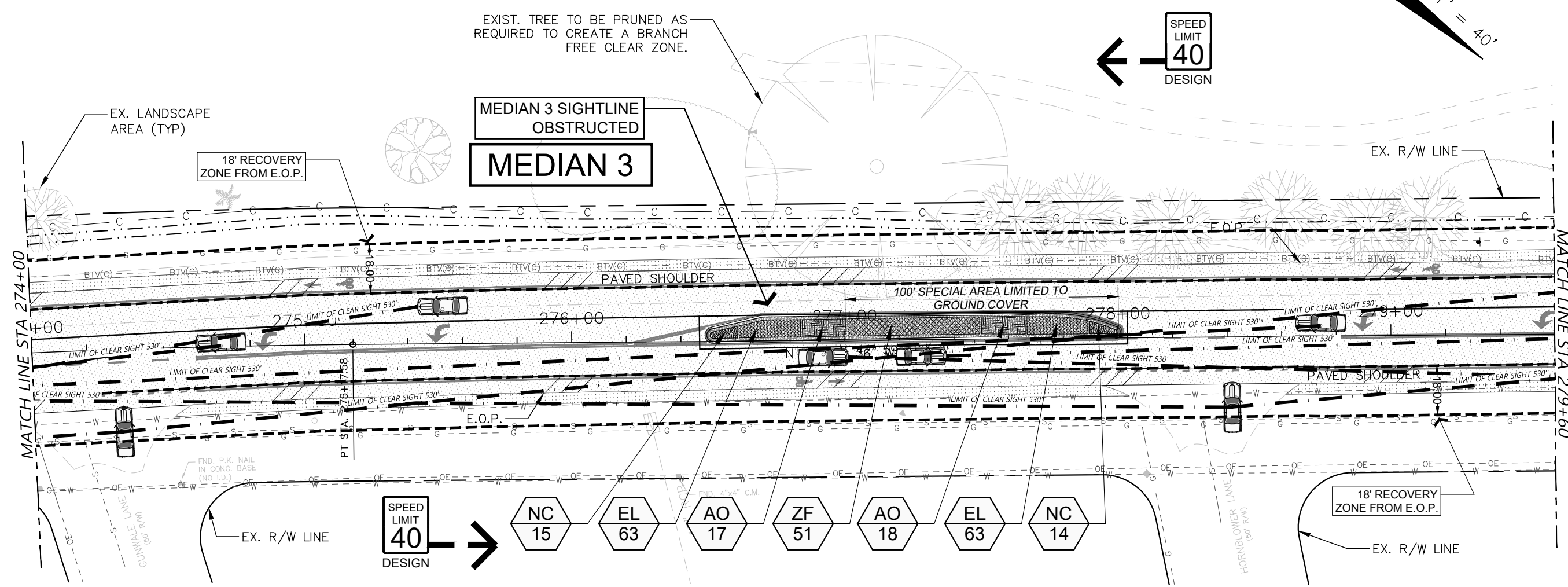
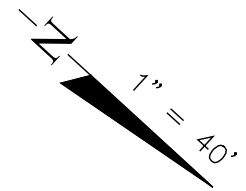
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-18**

# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS	
TR	BOTANICAL / COMMON NAME Thrinax radiata / Florida Thatch Palm
GROUND COVERS	
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

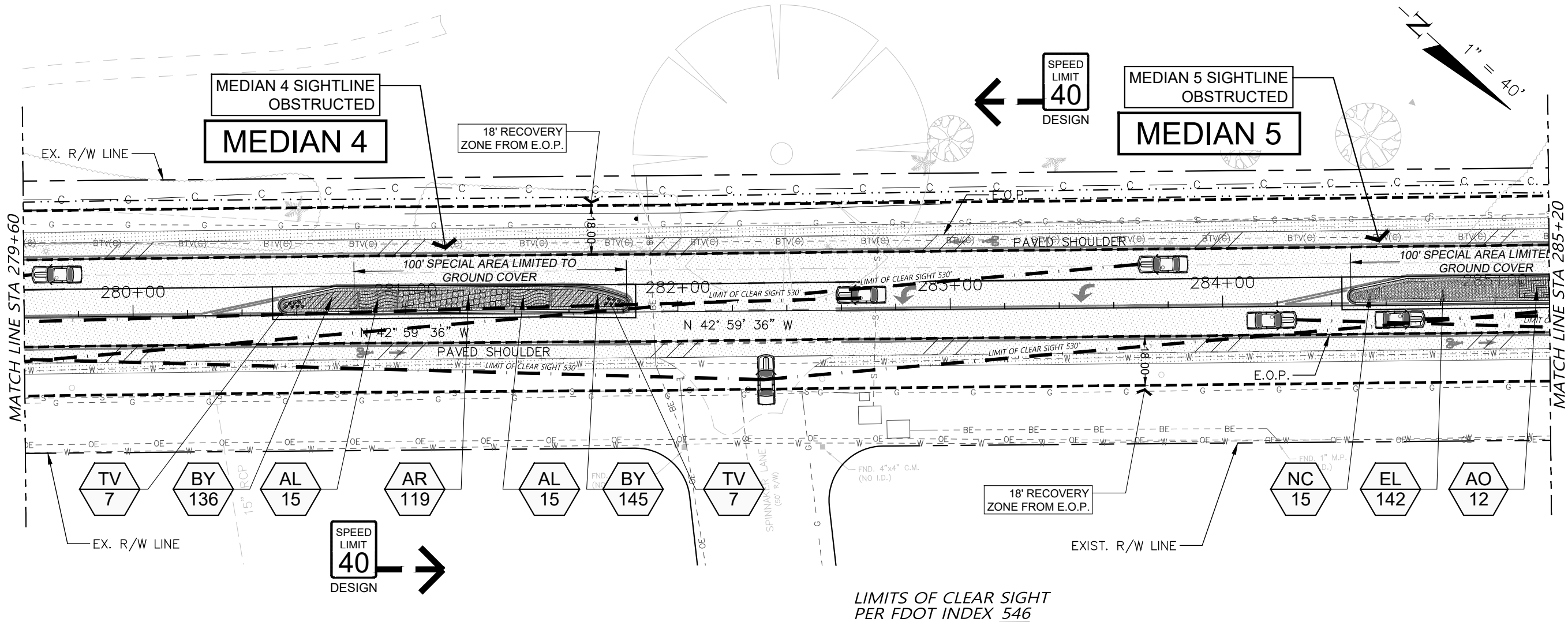
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN (Median 3)

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-19**

# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5199

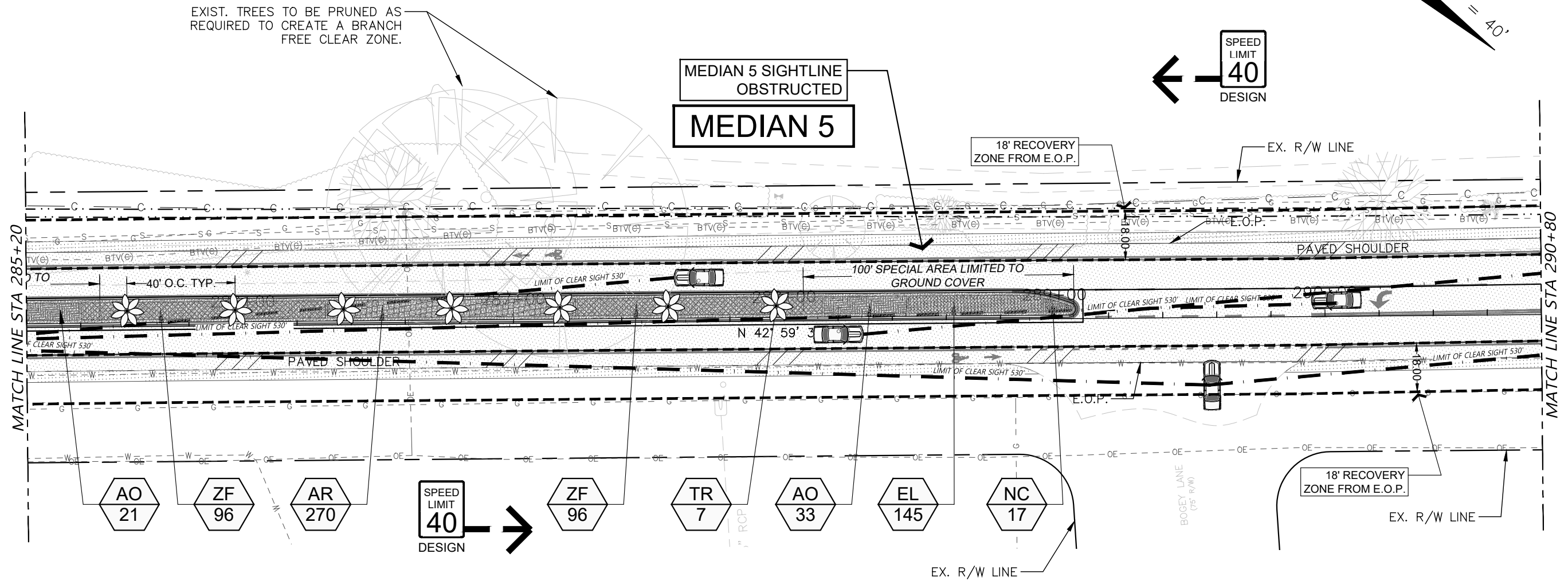
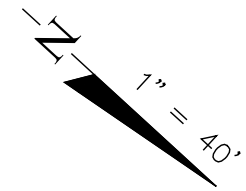
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN (Medians 4 and 5)

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-20**

# S.R. 789 (GULF OF MEXICO DR.)



## PLANT SCHEDULE

PALMS		BOTANICAL / COMMON NAME	
TR		Thrinax radiata	Florida Thatch Palm
GROUND COVERS		BOTANICAL / COMMON NAME	
AL		Aechmea blanchetiana 'Lime Green'	Lime Bromeliad
AO		Aechmea blanchetiana 'Orangeade'	Orangeade Bromeliad
AR		Alcantarea imperialis 'Rubra'	Rubra Imperial Bromeliad
BY		Bulbine frutescens 'Yellow African'	Bulbine
EL		Ernodea littoralis	Golden Creeper
MM		Mulch / 3" Depth Recycled Melaleuca	Mulch
TV		Tulbaghia violacea	Society Garlic
NC		Neoregelia cruenta 'Rubra'	Cruenta Bromeliad
ZF		Zamia floridana	Coontie

LIMITS OF CLEAR SIGHT PER FDOT INDEX 546

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

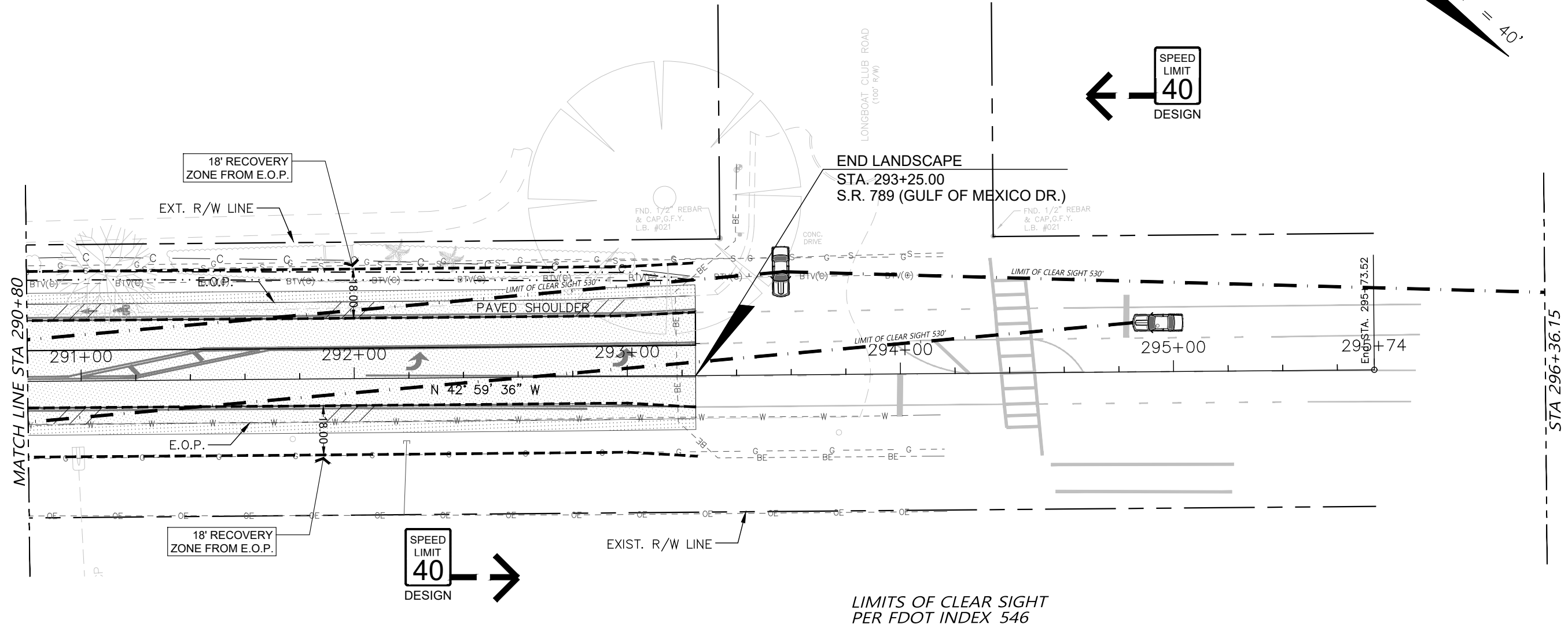
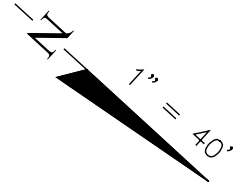
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE PLAN (Median 5)

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-21**

# S.R. 789 (GULF OF MEXICO DR.)



LIMITS OF CLEAR SIGHT PER FDOT INDEX 546

## PLANT SCHEDULE

PALMS	BOTANICAL / COMMON NAME
TR	Thrinax radiata / Florida Thatch Palm
GROUND COVERS	BOTANICAL / COMMON NAME
AL	Aechmea blanchetiana `Lime Green` / Lime Bromeliad
AO	Aechmea blanchetiana `Orangeade` / Orangeade Bromeliad
AR	Alcantarea imperialis `Rubra` / Rubra Imperial Bromeliad
BY	Bulbine frutescens `Yellow African` / Bulbine
EL	Ernodea littoralis / Golden Creeper
MM	Mulch / 3" Depth Recycled Melaleuca Mulch
TV	Tulbaghia violacea / Society Garlic
NC	Neoregelia cruenta `Rubra` / Cruenta Bromeliad
ZF	Zamia floridana / Coontie

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**LANDSCAPE PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-22**

# PLANTING TECHNICAL NOTES:

1. PLANT MATERIAL SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF SUFFICIENT PROOF THAT ANY OF THE SPECIFIED PLANTS ARE NOT OBTAINABLE TO ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT.
2. IN THE EVENT OF A CONFLICT BETWEEN QUANTITIES IN THE TABULATION OF QUANTITIES AND THE PLANS, THE PLANS SHALL CONTROL.
3. PROTECT EXISTING ROADS, SIDEWALKS, UTILITIES AND BUILDING STRUCTURES FROM DAMAGE. ALL DAMAGE SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER.
4. IF UNDERGROUND CONSTRUCTION, UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING EXCAVATION OF PLANTING AREAS OR PITS, ALTERNATE LOCATIONS FOR THE PLANT MATERIALS WILL BE SELECTED BY THE ENGINEER AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT. SUCH CHANGES IN LOCATION SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.
5. THE LOCATION OF PLANT MATERIALS ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL TREES AND SHRUBS PRIOR TO DIGGING TREE PITS. PLANTING AREA LAYOUT SHALL BE GOVERNED BY THE DIMENSIONS GIVEN OR SCALED ON THE DRAWINGS AND PLANTS SPACED ACCORDING TO THE SPECIFIED SPACING ON PLANS. THE ENGINEER SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE TO SCHEDULE A LAYOUT INSPECTION. ONE MODEL MEDIAN MUST BE COMPLETED IN ITS ENTIRETY AND SHALL BE INSPECTED PRIOR TO CONTINUING THE PLANTING INSTALLATION.
6. ALL PLANT MATERIAL FOR THIS PROJECT SHALL BE INSPECTED EITHER AT THE PLACE OF GROWTH OR AT THE SUBCONTRACTOR'S HOLDING AREA FOR COMPLIANCE WITH THE MATERIALS QUALITY REQUIREMENTS PRIOR TO INSTALLATION. ALL PLANTS WILL BE TAGGED AT THIS TIME FOR DELIVERY TO THE PROJECT SITE. A WRITTEN TALLY SHEET OF THE INSPECTED AND TAGGED MATERIAL WILL BE PROVIDED TO THE ENGINEER. IN NO CASE SHALL UNTAGGED MATERIAL BE DELIVERED OR PLANTED BY THE CONTRACTOR. A SUBSEQUENT INSTALLATION INSPECTION SHALL BE PERFORMED BY THE ENGINEER TO VERIFY THAT NO UN-TAGGED MATERIAL WAS PLANTED OR HAS BEEN MECHANICALLY OR OTHERWISE INJURED IN THE DELIVERY OR HANDLING. ANY PLANT MATERIAL REJECTED AT THIS TIME SHALL BE REMOVED FROM THE PROJECT SITE. ALL REPLACEMENT MATERIALS SUPPLIED BY THE CONTRACTOR SHALL BE SUBJECT TO THE SAME INSPECTION PROCESS. MULCH AND FERTILIZER MATERIALS, SAMPLES AND SUBMITTALS SHALL BE SENT TO THE ENGINEER FOR PRE-APPROVAL. PRE-TAGGING DOES NOT ELIMINATE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUITABLE MATERIAL TO THE JOB AND MAINTAIN AS SUITABLE UNTIL FINAL ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS TO HAVE ALL PLANT MATERIAL IN THE SIZES SPECIFIED AND FULLY ROOTED IN CONTAINERS AT THE TIMES REQUIRED FOR INSTALLATION. THE CONTRACTORS MAY CONTRACT GROW THE PLANT MATERIAL AND MAY RECEIVE NOT MORE THAN 40% OF THE BID PRICE ITEM AS PAYMENT FOR MATERIALS STOCKPILED PROVIDED THE MATERIAL IS PRE-TAGGED AND THE ABOVE REQUIREMENTS
7. THE CONTRACTOR SHALL, PRIOR TO LAYOUT AND EXCAVATING FOR ANY PLANTING AREA PER FLORIDA STATUTES 553.851, CALL THE UTILITY LOCATOR SERVICE 'SUNSHINE STATE ONE, (800) 432-4770. THIS CALL WILL BE PLACED A MINIMUM OF TWO (2) DAYS AND A MAXIMUM OF FIVE (5) DAYS BEFORE BEGINNING EXCAVATION. ANY LOCATIONAL CONFLICTS FOUND THROUGH THIS SERVICES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
8. INDIVIDUAL TREE LOCATIONS AND PLANTING BED OUTLINES WILL ALSO BE LAID OUT FOR INSPECTION BY THE ENGINEER PRIOR TO BEGINNING PLANTING CONSTRUCTION. INDIVIDUAL TREE INSTALLATIONS WILL BE INSPECTED BY THE ENGINEER FOR SOIL AMENDMENT VERIFICATION AND BACKFILLING TECHNIQUE. MULCHING, STAKING AND SITE CLEANUP WILL BE INSPECTED BY THE ENGINEER DURING SEMIFINAL INSPECTION. ALL PLANTING AREAS SHALL BE "DRESSED-OUT" AND THE TOTAL CONSTRUCTION SITE CLEANED PRIOR TO REQUESTING THIS INSPECTION. A REQUEST FOR THIS INSPECTION SHALL BE MADE BY THE CONTRACTOR TO THE ENGINEER AT LEAST 72 HOURS PRIOR TO THE ANTICIPATED DATE OF SUBSTANTIAL COMPLETION.
9. ALL PLANT EXCAVATIONS SHALL BE DUG AS DETAILED IN THE STANDARD F.D.O.T. PLANTING DETAILS. EACH HOLE SHALL BE BACKFILLED IN THIRDS WITH FERTILIZER TABLETS DISTRIBUTED IN THE TOP ONE-THIRD AND SPRINKLE A BIOLOGICALLY ACTIVE SOIL CONDITIONER THAT CONTAINS MYCHORRHIZAL FUNGI INCORPORATED UNIFORMLY IN THE TOP 1/3 OF BACKFILL. EACH LAYER OF BACKFILLING SHALL BE WATERED-IN AND ALLOWED TO SETTLE AROUND THE ROOTBALL. AFTER WATER IS ABSORBED, THE LAYERS SHALL BE TAMPED LIGHTLY TO COMPACT. NO BACKFILL IS TO COVER THE TOP OF THE ROOTBALL. WHEN WATERING-IN AND COMPACTION IS COMPLETED, THE CONTRACTOR SHALL CONSTRUCT AN EARTHEN SAUCER AS DETAILED IN THE PLANTING DETAILS. IF SETTLING OCCURS, THE CONTRACTOR SHALL BRING UP THE SETTLED PLANTS TO FINISH GRADE.
10. FOR TREES AND SHRUBS, CONTROLLED RELEASE FERTILIZER TABLETS CONTAINING TWENTY PERCENT (20%) NITROGEN, TEN PERCENT (10%) PHOSPHOROUS AND FIVE PERCENT (5%) POTASSIUM IN TWENTY-ONE (21) GRAM SIZES AND SHALL BE APPLIED AT THE RATES GIVEN ON THESE PLANS.
11. DURING TREE AND PALM INSTALLATION, CONTRACTOR SHALL THOROUGHLY MIX A BIOLOGICALLY ACTIVE SOIL CONDITIONER INTO THE TOP 1/3 OF PREPARED SOIL BACKFILL. ACTIVE SOIL CONDITIONER SHALL CONTAIN LIVE SPORES OF ENDOMYCORRHIAL FUNGI, ABSORBENT HYDROGEL GRANULES AND PLANT EXTRACTS. ACTIVE SOIL CONDITIONER SHALL BE APPLIED AT THE RATES GIVEN ON THESE PLANS.
12. ALL PLANTS SHALL BE SET PLUMB (VERTICAL) AND THEIR BEST "FACE" ORIENTED FOR THE MOST DESIRED EFFECT - THAT IS, THE MOST ATTRACTIVE SIDE OF THE PLANT SHALL BE POSITIONED TO THE MAIN POINT OF VIEW.
13. AFTER PLANTING OPERATIONS ARE COMPLETE AND BEFORE MULCHING, THE CONTRACTOR SHALL FINISH GRADE ALL PLANTING BEDS, LEAVING THEM EVENLY SURFACED, FREE FROM DEPRESSIONS, DEBRIS, STONES, RUBBISH, ETC., TO RECEIVE MULCH. MEDIANS MUST BE CROWNED TO DRAIN, 1/4" PER FOOT FROM CENTER TO CURB TYPICAL UNLESS OTHERWISE NOTED.

PLANTING TECHNICAL NOTES CONTINUED NEXT SHEET.

21 GRAM TABLET							
1 GALLON CAN PLANTS	3 GALLON CAN PLANTS	5 GALLON CAN PLANTS	7 GALLON CAN PLANTS	LARGE TREES OR B & B TREES	MATURE PALMS	10 GRAM TABLET WELL ROOTED LINERS	10 GRAM TABLET SMALL GROUNDCOVERS OR PERENNIALS
1 TABLET	2 TABLETS	3 TABLETS	4 TABLETS	TREES: 5 TABLETS/EA. 1/2" OF CALIPER SHRUBS: 1 TABLET FOR EA. 1' OF HEIGHT	10 TABLETS PER PALM	1 TO 2 TABLETS EACH	1 TABLET EACH

NOTE: ALL PLANTINGS SHALL BE FERTILIZED WITH CONTROLLED RELEASE 20-10-15 PLANTING TABLETS AT THE TIME OF INSTALLATION AND PRIOR TO COMPLETION OF BACKFILLING. PLANTING TABLETS SHALL BE PLACED UNIFORMLY AROUND THE ROOT MASS AT THE DEPTH THAT IS BETWEEN THE MIDDLE AND THE BOTTOM OF THE ROOT MASS.

ENGINEER, IN CONJUNCTION WITH THE LANDSCAPE ARCHITECT MAY MAKE A RANDOM SAMPLING OF PLANT PITS TO DETERMINE THE UNIFORMITY OF APPLICATION.

## FERTILIZATION - TREES, SHRUBS AND GROUNDCOVERS

No.	REVISION	DATE	BY	TOWN OF LONGBOAT KEY DEPARTMENT OF PUBLIC WORKS 600 GENERAL HARRIS STREET LONGBOAT KEY, FL., 34228	 DAVID W. JOHNSTON ASSOCIATES 690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-5199	DATE	05/09/19	CKD BY	DATE	TOWN OF LONGBOAT KEY S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS LANDSCAPE DETAILS	LANDSCAPE ARCHITECT OF RECORD	SHEET No.
						DRAWN	KSR	JA	05/19		PHILLIP J. SMITH ASLA RLA #1096 REGISTERED LANDSCAPE ARCHITECT	LD-23
						DESIGN	PJS	PJS	05/19			
						SCALE NOTED		DWJA NO.	19-20			
5	PER FINAL CIVIL REVIEW	10/05/20	KSR									

# PLANTING TECHNICAL NOTES:

14. BEFORE SODDING OPERATIONS BEGIN, THE CONTRACTOR SHALL FINISH GRADE ALL AREAS TO RECEIVE SOD, LEAVING THEM EVENLY SURFACED, FREE FROM DEPRESSIONS, DEBRIS, STONES, RUBBISH, ETC., AND AT 2" BELOW SURROUNDING SIDEWALKS AND CURBS TO RECEIVE SOD. ALL SOD SHALL BE SAND-GROWN, DENSE, WEED-FREE AND WELL-ROOTED. IT SHALL BE COMPOSED OF ONE HUNDRED PERCENT (100%) TURF GRASS AS SPECIFIED. NO SOD DELIVERED TO THE JOB SITE SHALL REMAIN UNPLANTED FOR MORE THAN 48 HOURS. ALL SODDED AREAS ARE TO BE ROLLED. ALL SODDED EMBANKMENTS ARE TO HAVE EVERY THIRD ROW PEGGED/PINNED. ALL SOD IS TO BE LAID WITH JOINTS STAGGERED. ALL SODDED AREAS ARE TO BE IMMEDIATELY HAND-WATERED-IN AND TO RECEIVE WATERING UNTIL FINAL ACCEPTANCE AT THE RATE PRESCRIBED IN THESE CONTRACT DOCUMENTS. ALL SODDED AREAS SHALL BE TOP DRESSED WITH 16-4-8 FERTILIZER. ALL SOD MATERIALS AND WORKMANSHIP IS SUBJECT TO REJECTION IF NOT INSTALLED PER THESE TECHNICAL SPECIFICATIONS, STANDARD F.D.O.T. SPECIFICATIONS AND THE TECHNICAL MAINTENANCE PLAN.
15. SURPLUS EXCAVATED MATERIAL FROM PLANT HOLES SHALL BE REMOVED FROM SITE DAILY. ALL DEBRIS AND OBJECTIONABLE MATERIAL SHALL BE REMOVED FROM SITE DAILY. ALL REMOVED MATERIAL SHALL BE DISPOSED OF IN A SAFE AND LAWFUL MANNER. THE CONTRACTOR, AS A RESULT OF CONSTRUCTION OPERATIONS, WILL REMOVE ANY SOILS DEPOSITED IN ROADWAY ON A DAILY BASIS AND SWEEP THE ROAD CLEAN AFTER REMOVAL.
16. ALL PLANTS AND SOD AREAS NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE ESTABLISHMENT PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED WITHIN TEN (10) CALENDAR DAYS AFTER WRITTEN NOTICE.
17. NO LATER THAN ONE (1) MONTH AFTER THE DATE OF SEMIFINAL INSPECTION FOR THE PROJECT THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS-BUILT" PLANTING PLANS/DETAILS, SHOWING IN RED LINES, ANY AND ALL APPROVED CHANGES MADE TO THE PLANTING DURING THE PROJECT'S CONSTRUCTION FOR DISTRIBUTION TO THE PROJECT ENGINEER. TWO (2) SETS OF APPROVED DRAWINGS WILL BE FURNISHED TO THE CONTRACTOR FOR THIS PURPOSE AT THE PRE-CONSTRUCTION CONFERENCE.
18. CONTRACTOR SHALL BE FULLY AWARE OF ALL REQUIREMENTS AS SPECIFIED IN THE TECHNICAL MAINTENANCE PLAN.

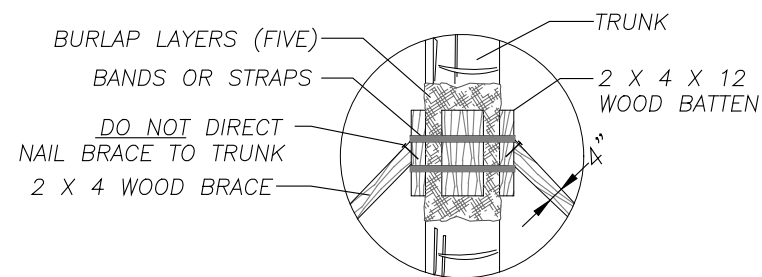
EROSION CONTROL NOTES:

1. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
2. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE TO THE EXTENT EXPRESSED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE ROADWAY PLANS.
3. IF THE PRIME CONTRACTOR HAS REMOVED EROSION CONTROL DEVICES DUE TO COMPLETION OF WORK, NEW EROSION CONTROL DEVICES MUST BE INSTALLED BY THE LANDSCAPE CONTRACTOR TO THE EXTENT EXPRESSED IN THE STORMWATER POLLUTION PLAN (SWPPP) IN THE ROADWAY PLANS.

NOTE: WHERE NOTED IN THESE PLANS PER SPECIFICATION AND IMPLEMENTATION, THE WORD "ENGINEER" SHALL SIMILARLY MEAN LANDSCAPE ARCHITECT OR AUTHORIZED PERSON FROM THE TOWN OF LONGBOAT KEY.

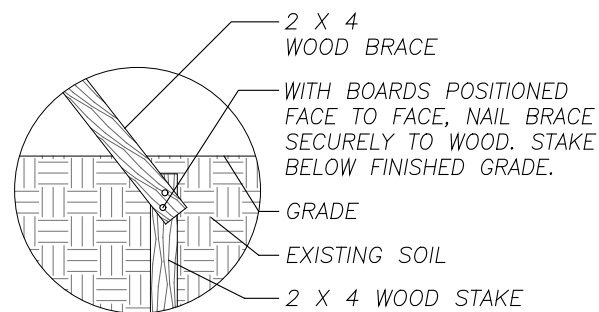
No.	REVISION	DATE	BY		DATE	CKD. BY	DATE	TOWN OF LONGBOAT KEY S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS LANDSCAPE DETAILS	LANDSCAPE ARCHITECT OF RECORD	SHEET No.
				TOWN OF LONGBOAT KEY DEPARTMENT OF PUBLIC WORKS 600 GENERAL HARRIS STREET LONGBOAT KEY, FL., 34228					PHILLIP J. SMITH, ASLA, RLA #1096 REGISTERED LANDSCAPE ARCHITECT	LD-24
5	PER FINAL CIVIL REVIEW	10/05/20	KSR	<b>dwja</b> LANDSCAPE ARCHITECTS <b>DAVID W. JOHNSTON ASSOCIATES</b> 660 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166	05/09/19	KSR	05/19			
					DESIGN	PJS	05/19			
					SCALE NOTED	DWJA NO. 19-20				





### WOOD BATTEN DETAIL

NOT TO SCALE



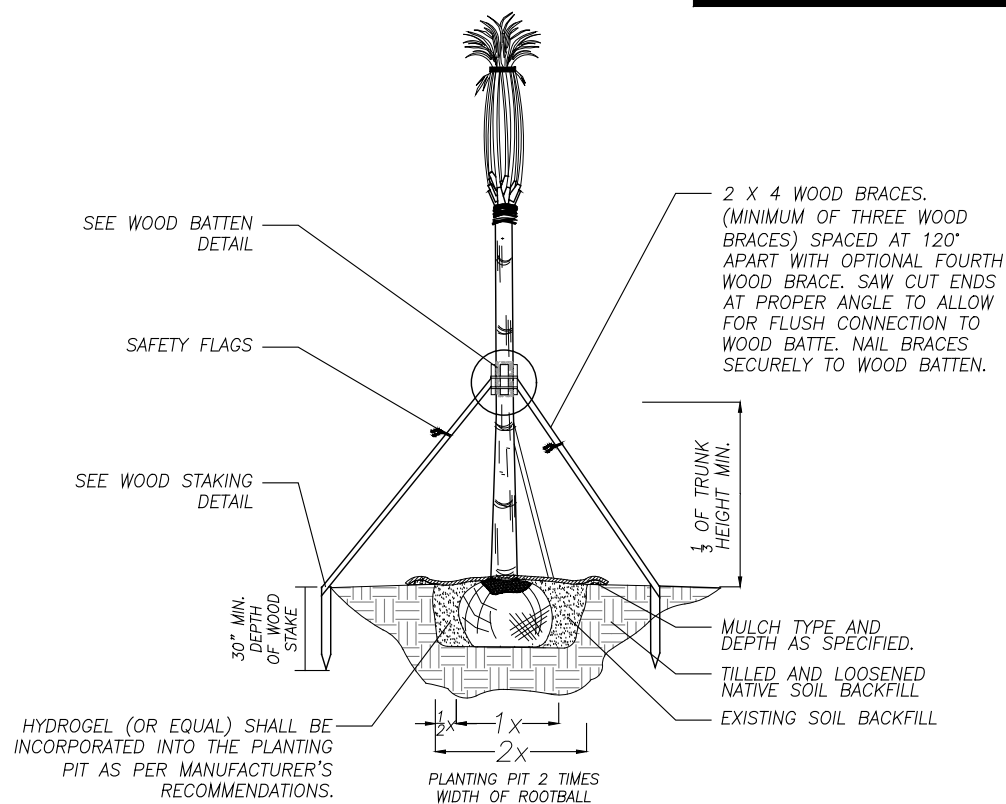
### WOOD STAKING DETAIL

NOT TO SCALE

NOTE: STAKE INTO FIRM, EXISTING SOIL.

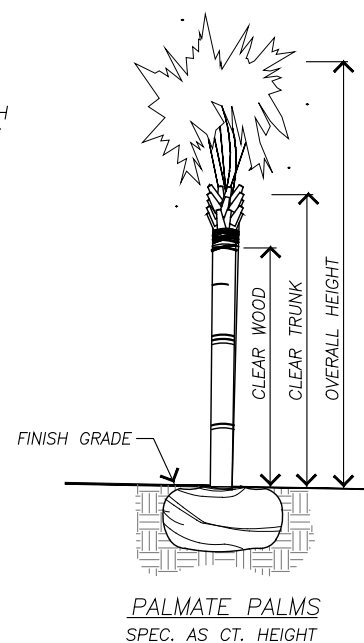
### MULCHING OPERATIONS

NOTE: MULCH SHALL NOT BE PLACED WITHIN 6" OF THE RADIUS OF ANY WOODY PLANT STEM. NO EXCEPTIONS.



### PALM PLANTING AND STAKING DETAIL

NOT TO SCALE



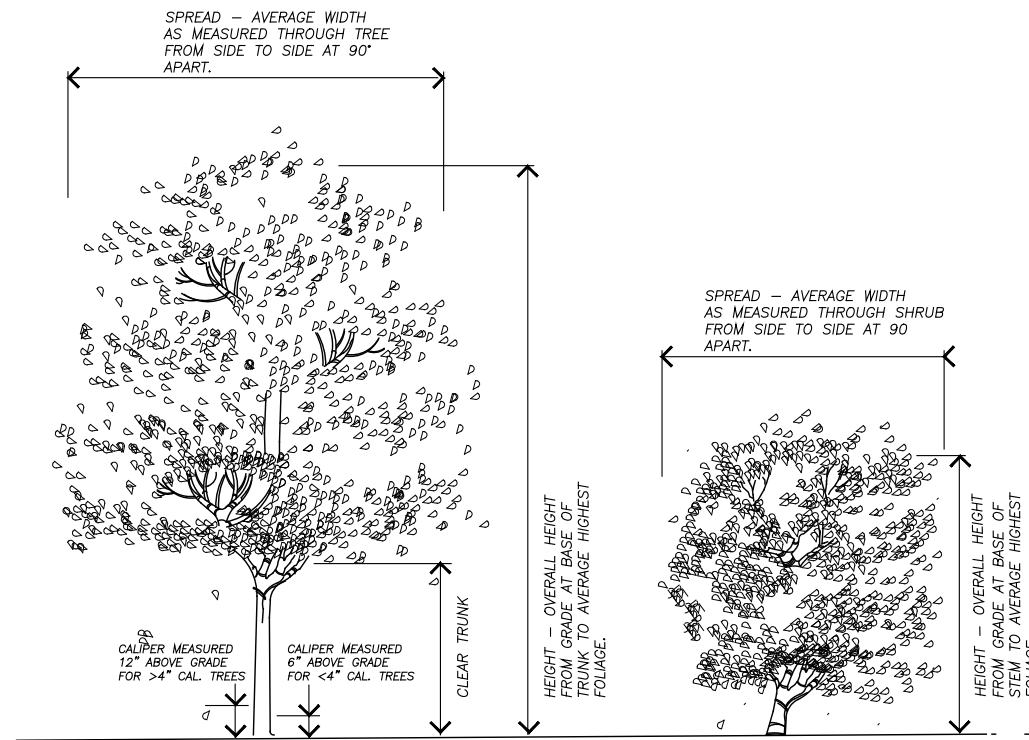
PALMATE PALMS  
SPEC. AS CT. HEIGHT

BALL SIZE VARIES. MINIMUM ACCEPTED SIZES ARE AS FOLLOWS:

THATCH PALM 30"x24" DEEP  
REFER TO SPECIFICATIONS FOR OTHER NOMENCLATURE, ABBREVIATIONS AND QUALITY REQUIREMENTS.  
WIRE AND BURLAP BALLS AS NECESSARY FOR GIVEN SPECIMEN.

### PALM SIZING SPECIFICATIONS

NOT TO SCALE



EXAMPLE: HEIGHT x SPREAD - CALIPER  
TREES WITH SHARP "V" SHAPED BRANCHING AT THE TRUNK SHALL NOT BE ACCEPTED.

REFER TO SPECIFICATIONS FOR OTHER NOMENCLATURE, ABBREVIATIONS AND QUALITY REQUIREMENTS.

EXAMPLE: HEIGHT x SPREAD

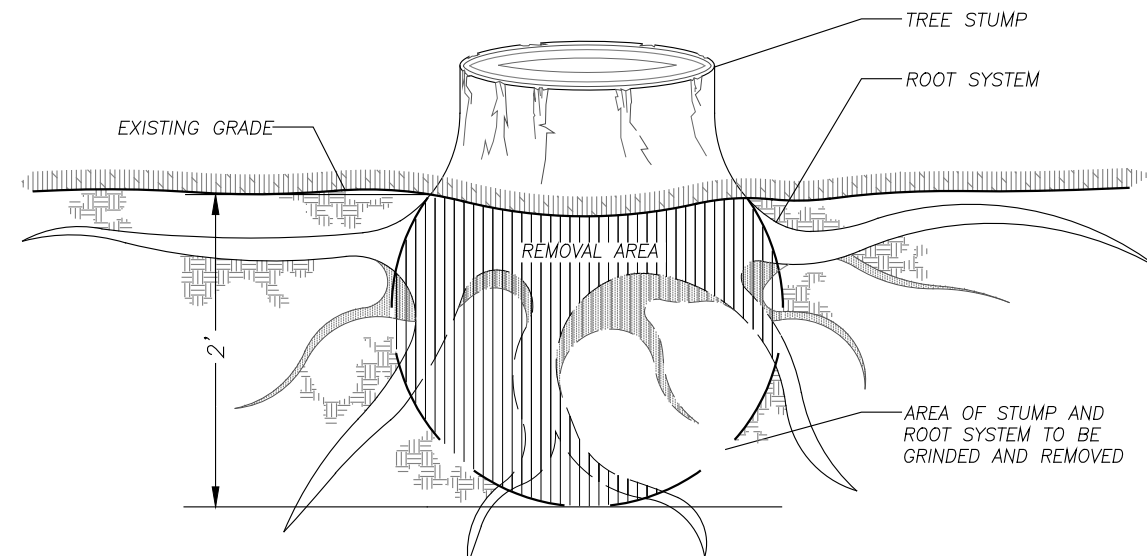
### TREE AND SHRUB SIZING SPECIFICATION

NOT TO SCALE

IMPORTANT NOTE:  
ALL TREES, PALMS AND B&B MATERIAL SHALL BE PLANTED AS FOLLOWS:

1. DIG HOLE.
2. SPRINKLE HYDROGEL EVENLY OVER BACKFILL SOIL NEXT TO HOLE SO THAT IT WILL THOROUGHLY MIX WITH SOIL DURING BACKFILLING OPERATIONS. ALL APPLICATIONS SHALL BE PER MFG. RECOMMENDATIONS.
3. BACKFILL WITH 4" OF EXISTING SOIL AND PREPARE SHELF FOR ROOTBALL TO SET ONTO.
4. PLACE ROOTBALL IN HOLE AND STRAIGHTEN TREE.
5. BACKFILL 25% OF DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
6. BACKFILL TO 50% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
7. BACKFILL TO 75% DEPTH. WATER AND TAMP IN WHILE MAINTAINING THE STRAIGHTENED TREE.
8. BACKFILL THE REST AND THOROUGHLY WATER IN TREE MAKING SURE THE TRUNK IS DIRECTLY PERPENDICULAR TO THE FINISHED GRADE.

NOTE:  
ANY DEVIATION FROM THE ABOVE PROCESS WILL NOT BE CONSIDERED AS PER INDUSTRY STANDARDS AND WILL BE CAUSE FOR REJECTION OF THE WORK.



NOTE: STUMP GRINDING SHOULD INCLUDE A SKIRT OR FENCING AROUND THE STUMP TO CONTROL FLYING DEBRIS AND LIMIT WHERE STRAY PIECES OF STUMP AND SOIL MAY END-UP. ALLOW ENOUGH ROOM INSIDE THE SKIRTING FOR WOOD CHIP BUILD-UP. THE CHIPS PRODUCED WILL AMOUNT TO APPROXIMATELY FOUR TIMES THE VOLUME AS SOLID STUMP WOOD. THE CLEAN UP PROCEDURES FOR EXCESS WOOD CHIPS WILL BE DECIDED BY TOWN OF LONGBOAT KEY OFFICIALS.

CONTRACTOR IS TO GRIND THE STUMP TO A 24 INCH DEPTH (2 FEET) BELOW THE EXISTING GRADE OR AS THE EXISTING CONDITIONS PERMIT. CONTRACTOR IS TO DISCUSS WITH THE LANDSCAPE ARCHITECT OR TOWN OF LONGBOAT KEY OFFICIAL PRIOR TO GRINDING THE EXTENT AROUND THE STUMP FOR THE ROOTS TO REMAIN OR BE REMOVED. THE EXCAVATION HOLE SHALL BE CLEANED OUT COMPLETELY AND BACKFILLED WITH CLEAN BUILDERS SAND.

### STUMP REMOVAL DETAIL

NOT TO SCALE

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

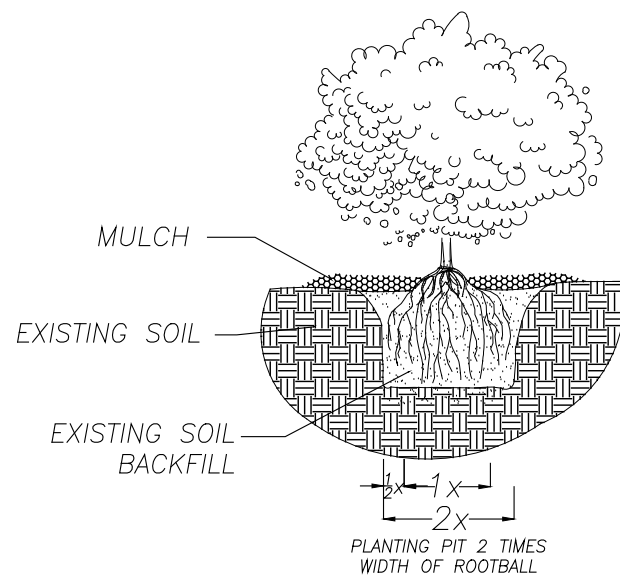
**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	CKD BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO.	19-20
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
LANDSCAPE DETAILS

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

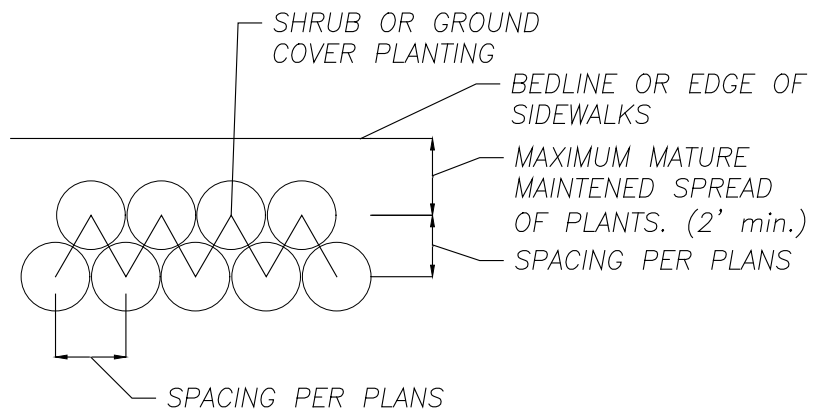
SHEET No.  
**LD-25**



NOTE: SPRINKLE HYDROGEL EVENLY OVER BACKFILL SOIL NEXT TO HOLE SO THAT IT WILL THOROUGHLY MIX WITH SOIL DURING BACKFILLING OPERATIONS. ALL APPLICATIONS SHALL BE PER MFG. RECOMMENDATIONS.

### GROUND COVER/SHRUB PLANTING

NOT TO SCALE



### GROUND COVER/SHRUB LAYOUT DETAIL

NOT TO SCALE

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
660 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

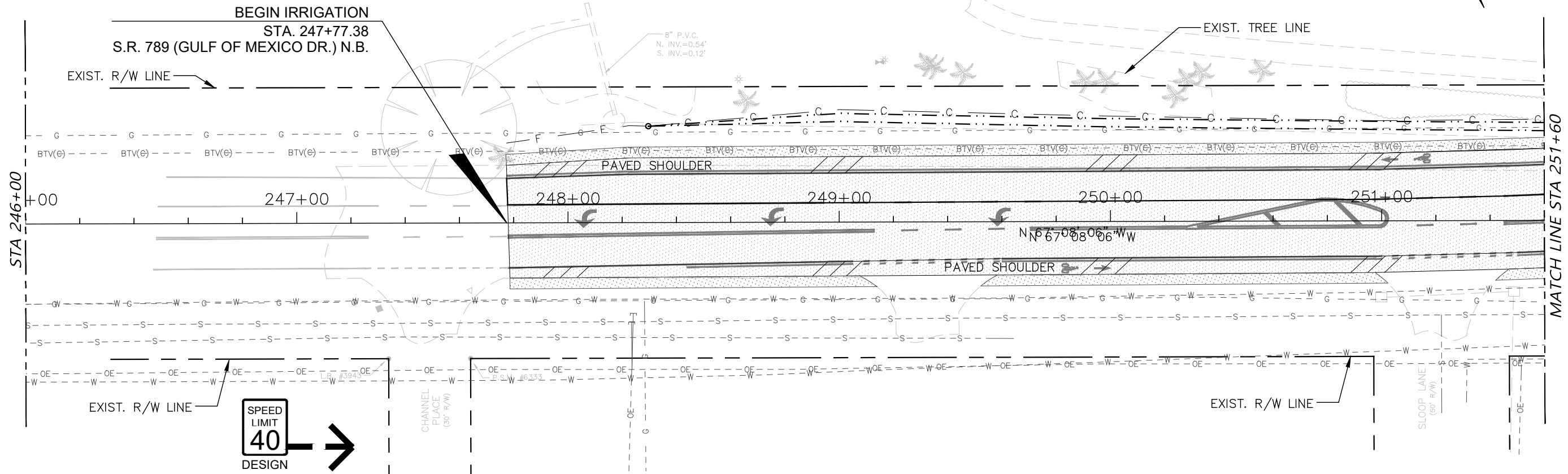
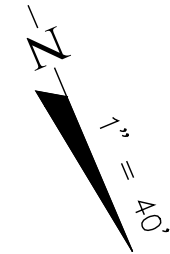
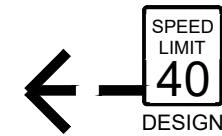
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**LANDSCAPE DETAILS**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-26**

# S.R. 789 (GULF OF MEXICO DR.)



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # — Valve Number # — Valve Flow # — Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION PIPING, VALVES, CONTROLLERS AND EQUIPMENT WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



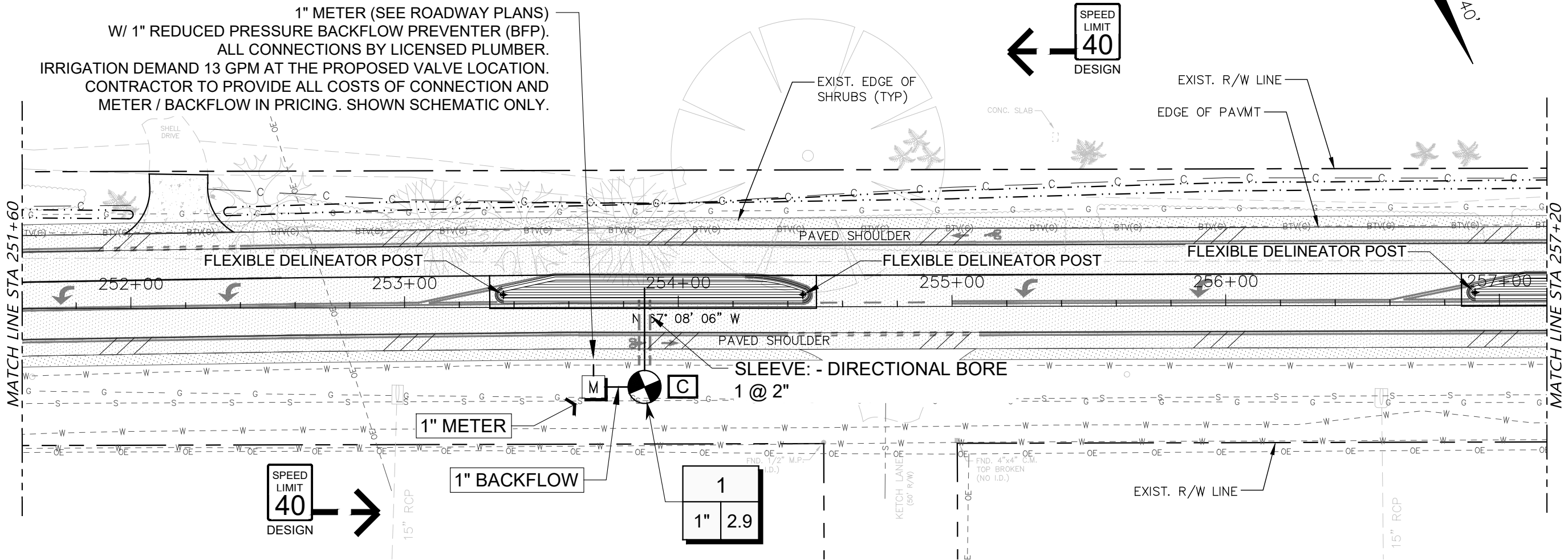
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION PLAN

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-27**

# S.R. 789 (GULF OF MEXICO DR.)



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # — Valve Number # — Valve Flow # — Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION  
PIPING, VALVES, CONTROLLERS AND EQUIPMENT  
WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN  
PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

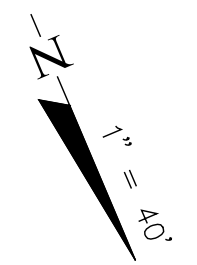
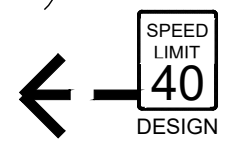
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION PLAN

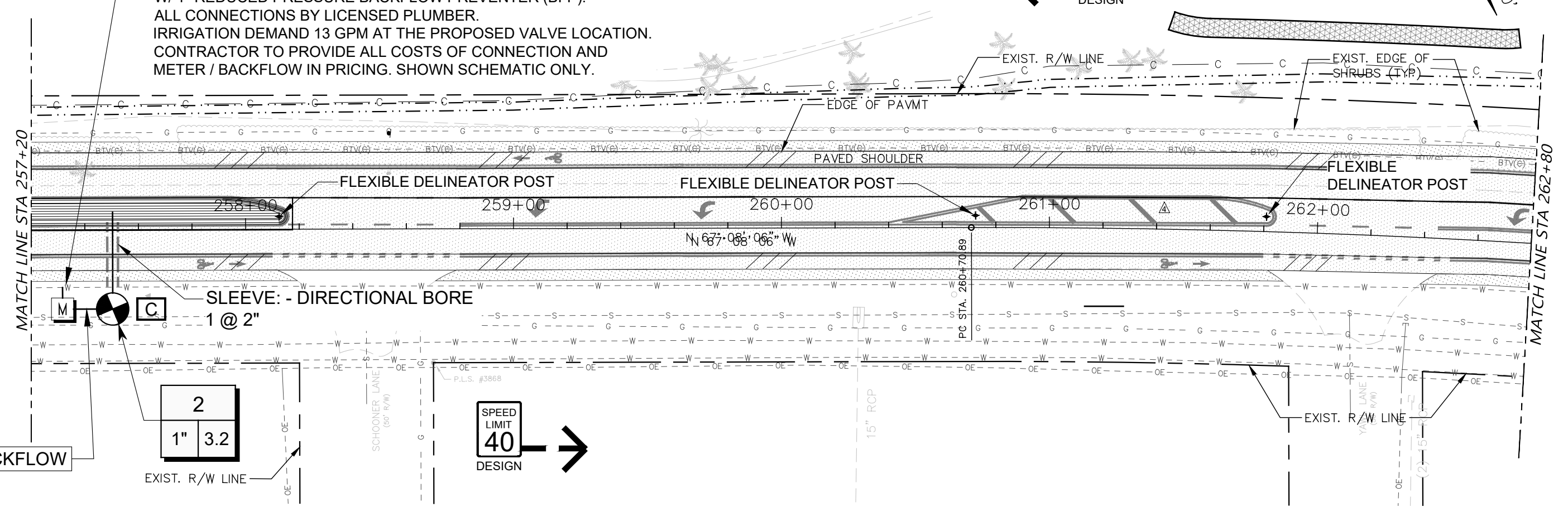
LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-28**

# S.R. 789 (GULF OF MEXICO DR.)



1" METER (SEE ROADWAY PLANS)  
 W/ 1" REDUCED PRESSURE BACKFLOW PREVENTER (BFP).  
 ALL CONNECTIONS BY LICENSED PLUMBER.  
 IRRIGATION DEMAND 13 GPM AT THE PROPOSED VALVE LOCATION.  
 CONTRACTOR TO PROVIDE ALL COSTS OF CONNECTION AND  
 METER / BACKFLOW IN PRICING. SHOWN SCHEMATIC ONLY.



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # — Valve Number # — Valve Flow # — Valve Size

**NOTE:**  
 IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION  
 PIPING, VALVES, CONTROLLERS AND EQUIPMENT  
 WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN  
 PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
 DEPARTMENT OF PUBLIC WORKS  
 600 GENERAL HARRIS STREET  
 LONGBOAT KEY, FL., 34228



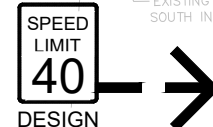
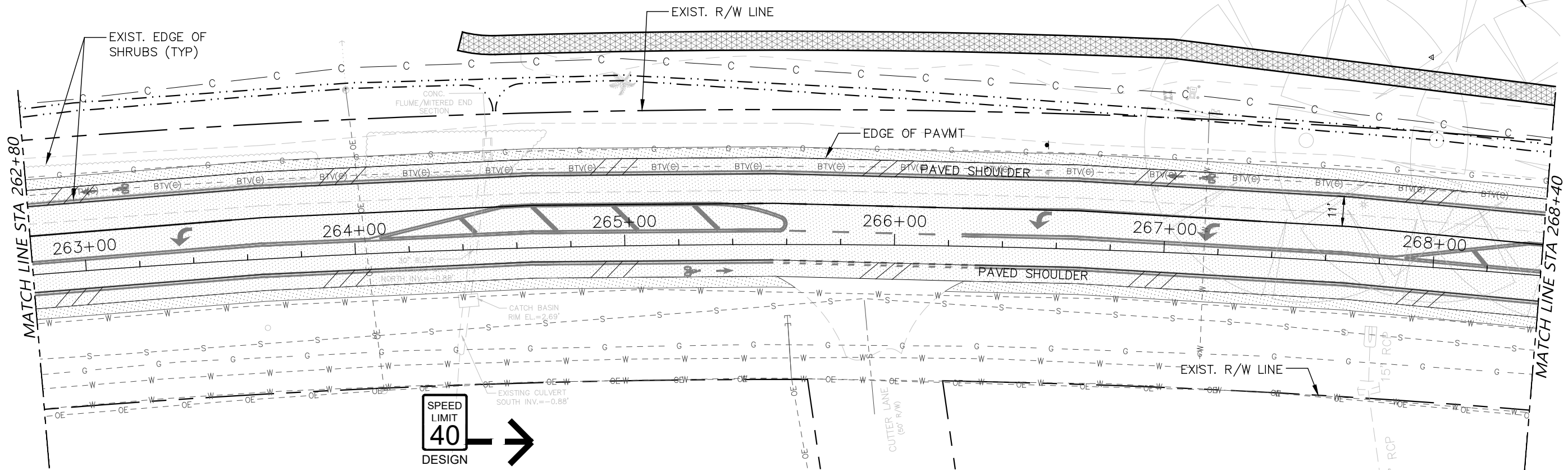
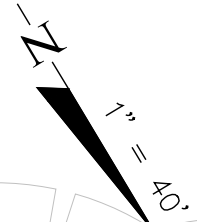
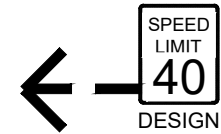
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
 S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
 IRRIGATION PLAN

LANDSCAPE ARCHITECT OF RECORD  
 PHILLIP J. SMITH ASLA, RLA #1096  
 REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-29**

# S.R. 789 (GULF OF MEXICO DR.)



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # — Valve Number # — Valve Flow # — Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION PIPING, VALVES, CONTROLLERS AND EQUIPMENT WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



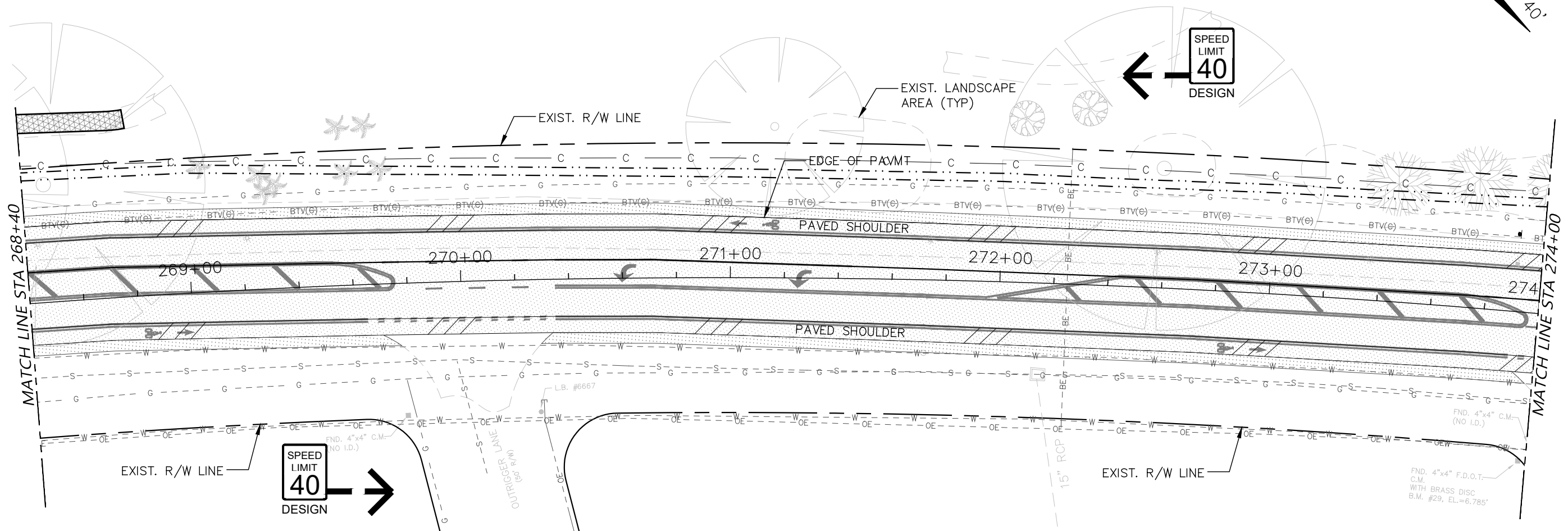
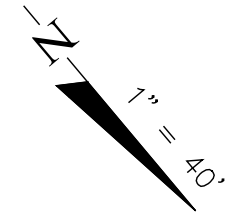
DATE	05/09/19	CKD. BY	DATE
DRAWN	KSR	JA	05/19
DESIGN	PJS	PJS	05/19
SCALE NOTED		DWJA NO.	19-20

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION PLAN

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-30**

# S.R. 789 (GULF OF MEXICO DR.)



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # — Valve Number # — Valve Flow # — Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION  
PIPING, VALVES, CONTROLLERS AND EQUIPMENT  
WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN  
PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



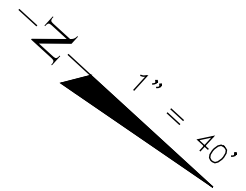
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION PLAN

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

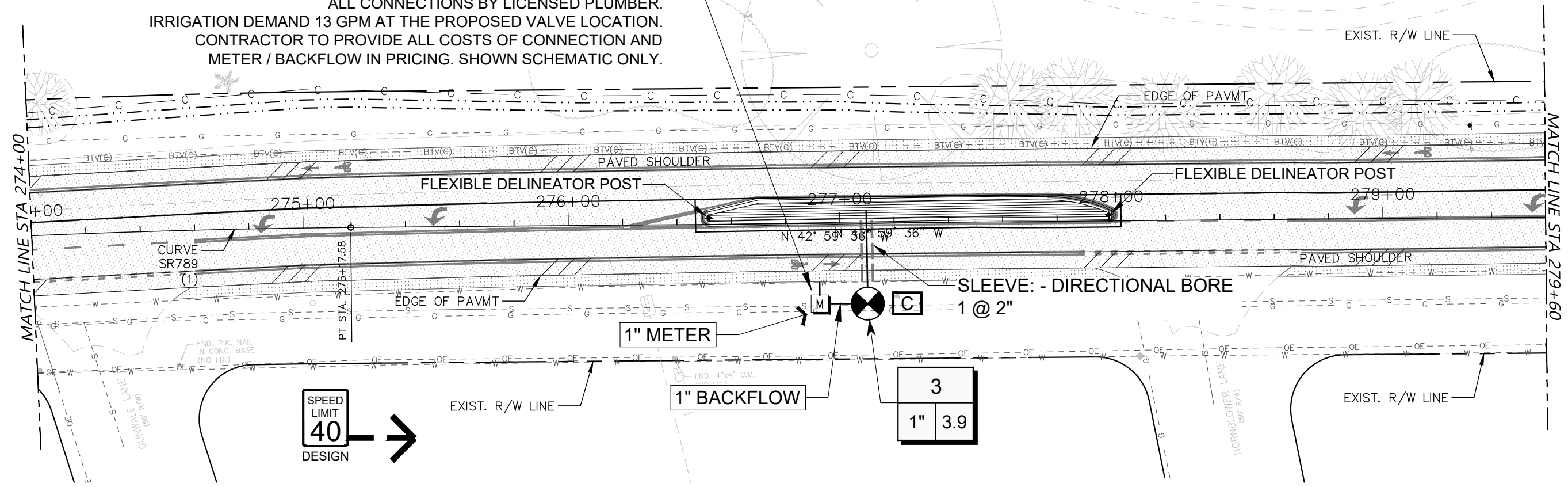
SHEET No.  
**LD-31**

# S.R. 789 (GULF OF MEXICO DR.)



← **SPEED LIMIT 40** DESIGN

**1" METER (SEE ROADWAY PLANS)  
W/ 1" REDUCED PRESSURE BACKFLOW PREVENTER (BFP).  
ALL CONNECTIONS BY LICENSED PLUMBER.  
IRRIGATION DEMAND 13 GPM AT THE PROPOSED VALVE LOCATION.  
CONTRACTOR TO PROVIDE ALL COSTS OF CONNECTION AND  
METER / BACKFLOW IN PRICING. SHOWN SCHEMATIC ONLY.**



**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout
			Valve Number
			Valve Flow
			Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION PIPING, VALVES, CONTROLLERS AND EQUIPMENT WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

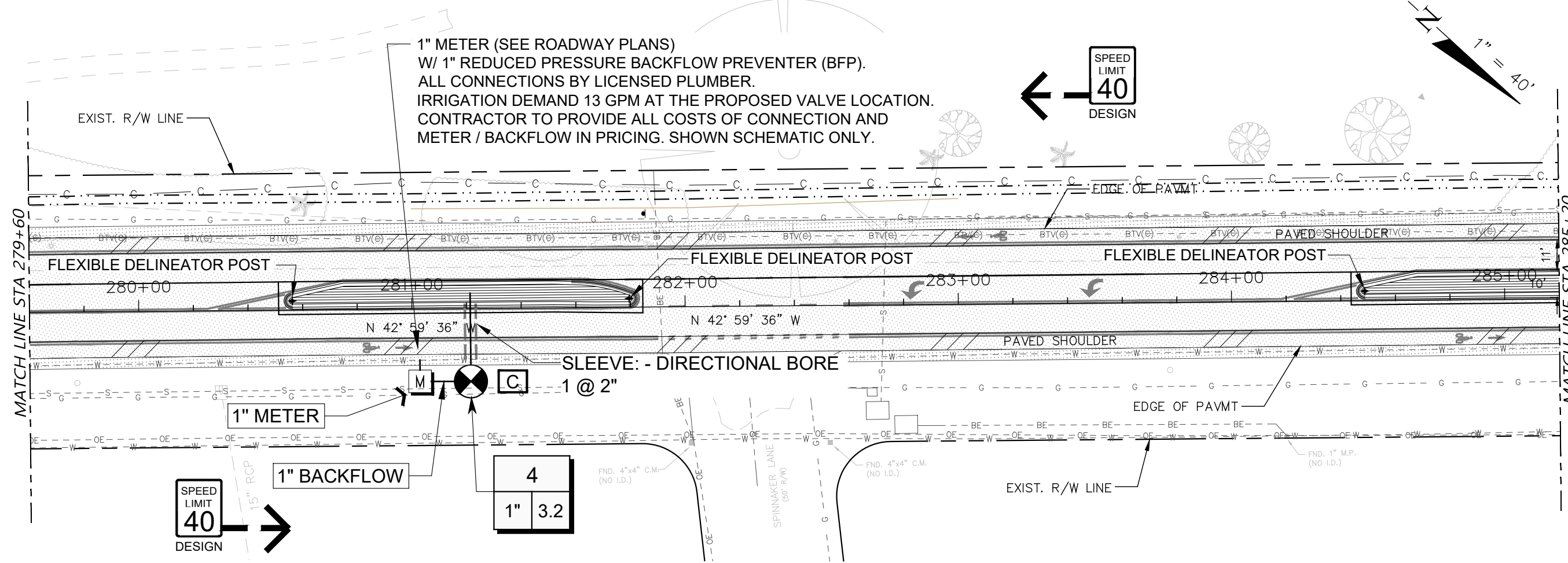
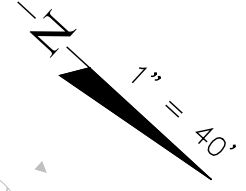
TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**IRRIGATION PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-32**



# S.R. 789 (GULF OF MEXICO DR.)



1" METER (SEE ROADWAY PLANS)  
 W/ 1" REDUCED PRESSURE BACKFLOW PREVENTER (BFP).  
 ALL CONNECTIONS BY LICENSED PLUMBER.  
 IRRIGATION DEMAND 13 GPM AT THE PROPOSED VALVE LOCATION.  
 CONTRACTOR TO PROVIDE ALL COSTS OF CONNECTION AND  
 METER / BACKFLOW IN PRICING. SHOWN SCHEMATIC ONLY.

SPEED LIMIT 40 DESIGN

SPEED LIMIT 40 DESIGN

4  
1" 3.2

### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # - Valve Number # - Valve Flow # - Valve Size

**NOTE:**  
 IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION  
 PIPING, VALVES, CONTROLLERS AND EQUIPMENT  
 WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN  
 PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
 DEPARTMENT OF PUBLIC WORKS  
 600 GENERAL HARRIS STREET  
 LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
 690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

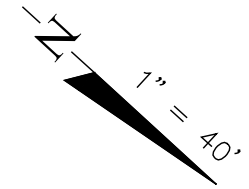
DATE	05/09/19	CKD. BY	DATE
DRAWN	KSR	JA	05/19
DESIGN	PJS	PJS	05/19
SCALE NOTED		DWJA NO.	19-20

TOWN OF LONGBOAT KEY  
 S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
 IRRIGATION PLAN

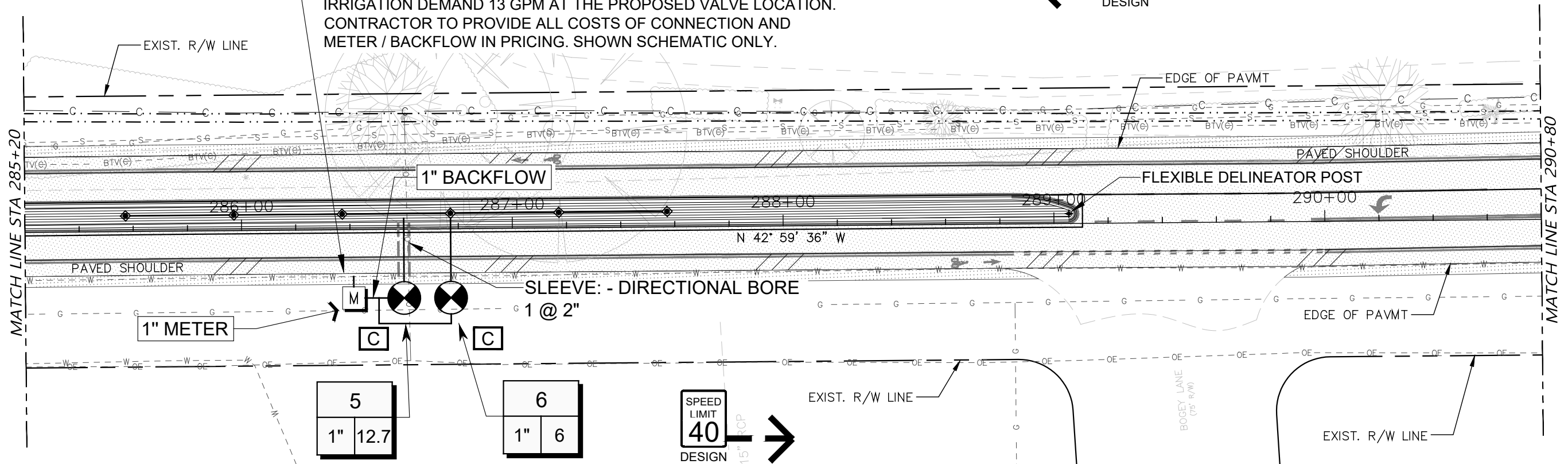
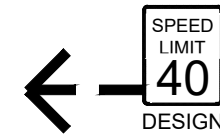
LANDSCAPE ARCHITECT OF RECORD  
 PHILLIP J. SMITH ASLA, RLA #1096  
 REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-33**

# S.R. 789 (GULF OF MEXICO DR.)



1" METER (SEE ROADWAY PLANS)  
 W/ 1" REDUCED PRESSURE BACKFLOW PREVENTER (BFP).  
 ALL CONNECTIONS BY LICENSED PLUMBER.  
 IRRIGATION DEMAND 13 GPM AT THE PROPOSED VALVE LOCATION.  
 CONTRACTOR TO PROVIDE ALL COSTS OF CONNECTION AND  
 METER / BACKFLOW IN PRICING. SHOWN SCHEMATIC ONLY.



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # - Valve Number # - Valve Flow # - Valve Size

**NOTE:**  
 IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION  
 PIPING, VALVES, CONTROLLERS AND EQUIPMENT  
 WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN  
 PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
 DEPARTMENT OF PUBLIC WORKS  
 600 GENERAL HARRIS STREET  
 LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
 690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3199

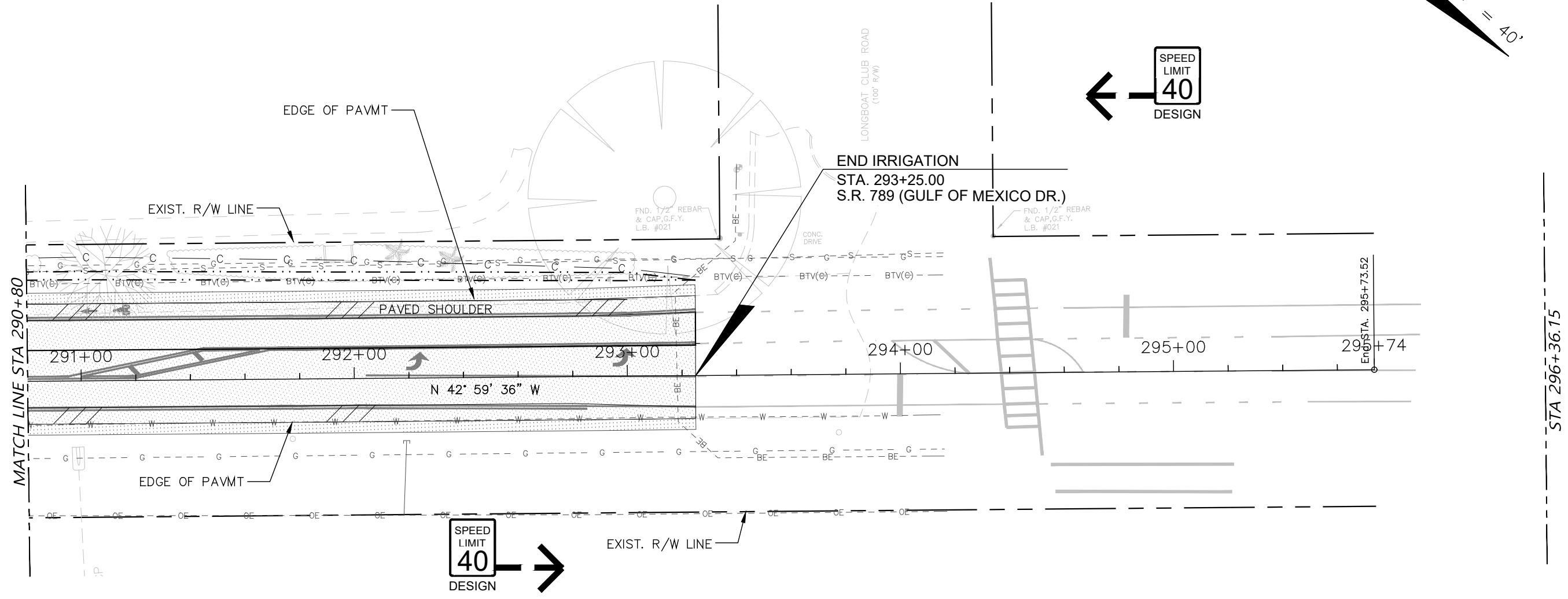
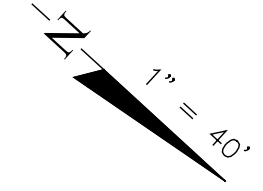
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DRAWN KSR	PJS	05/19
DESIGN PJS	DWJA NO. 19-20	
SCALE NOTED		

TOWN OF LONGBOAT KEY  
 S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
 IRRIGATION PLAN

LANDSCAPE ARCHITECT OF RECORD  
 PHILLIP J. SMITH, ASLA, RLA #1096  
 REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-34**

# S.R. 789 (GULF OF MEXICO DR.)



### IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PCB Flood Bubbler, 1/2" FIPT.		Hunter NODE-100 Single Station Controller, Outdoor, Battery Powered. DC Latching Solenoid Included.
	Area to Receive Dripline Hunter HDL-06-18-R HDL-06-18-R: Hunter Dripline with 0.6 GPH flow. Light brown tubing with purple striping. Emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.		Water Meter 1" / Backflow 1"
	Hunter PGV-101A 1" Plastic Electric Remote Control Valve, for Residential/Light Commercial Use. Female NPT Inlet/Outlet. Angle Configuration, With Flow Control.		Irrigation Lateral Line: PVC Class 160 SDR 26
			Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 36 inches beyond edges of paving or construction.
			Valve Callout # ————— Valve Number # ————— Valve Flow # ————— Valve Size

**NOTE:**  
IRRIGATION IS SCHEMATIC ONLY. LOCATE IRRIGATION PIPING, VALVES, CONTROLLERS AND EQUIPMENT WITHIN LANDSCAPE AREAS IN MEDIANS AND WITHIN PROPERTY BOUNDARY.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228



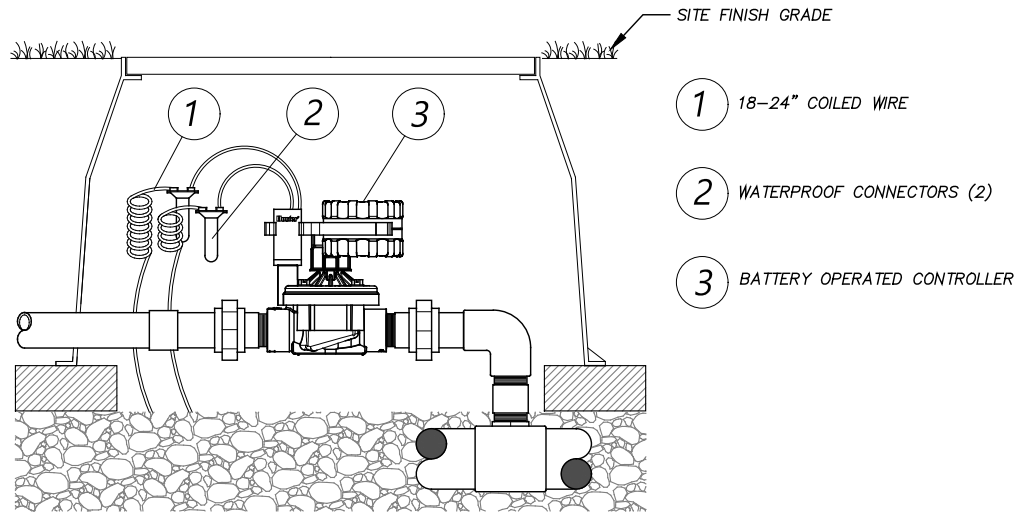
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION PLAN

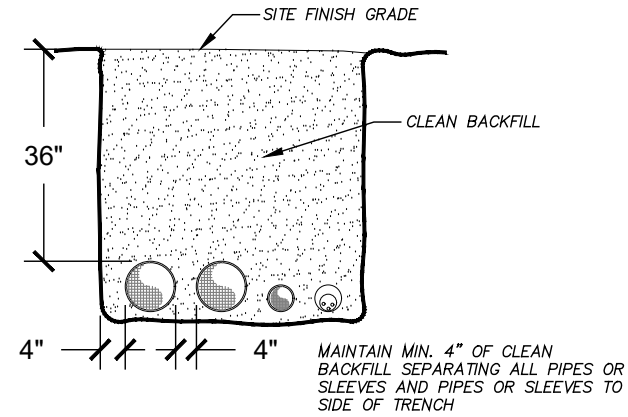
LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-35**

ANY SPECIFICATIONS WHICH INCLUDE PARTICULAR NAME-BRAND PRODUCTS MAY BE SUBSTITUTED WITH EQUAL PRODUCTS, IF APPROVED BY THE LANDSCAPE ARCHITECT AND THE TOWN OF LONGBOAT KEY PRIOR TO ORDERING.

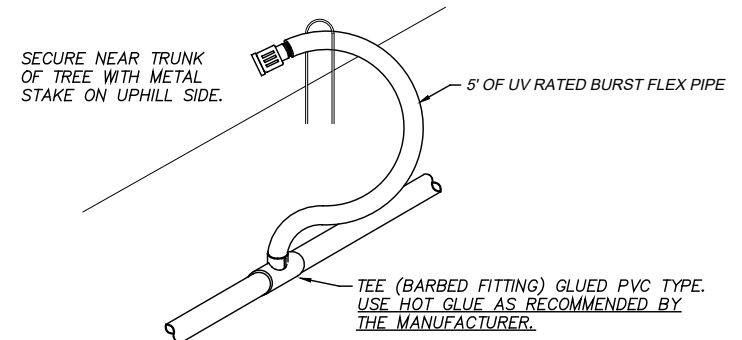


**1** TYPICAL BATTERY OPERATED CONTROLLER / VALVE  
N.T.S.



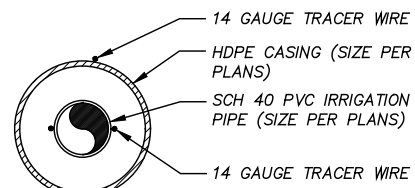
SET TOP OF PIPES OR SLEEVES 36" BELOW SITE FINISH GRADE. BACKFILL TRENCH WITH CLEAN FILL MATERIAL FREE OF ORGANIC MATERIAL AND ROCK.

**2** TRENCH DETAIL  
N.T.S.

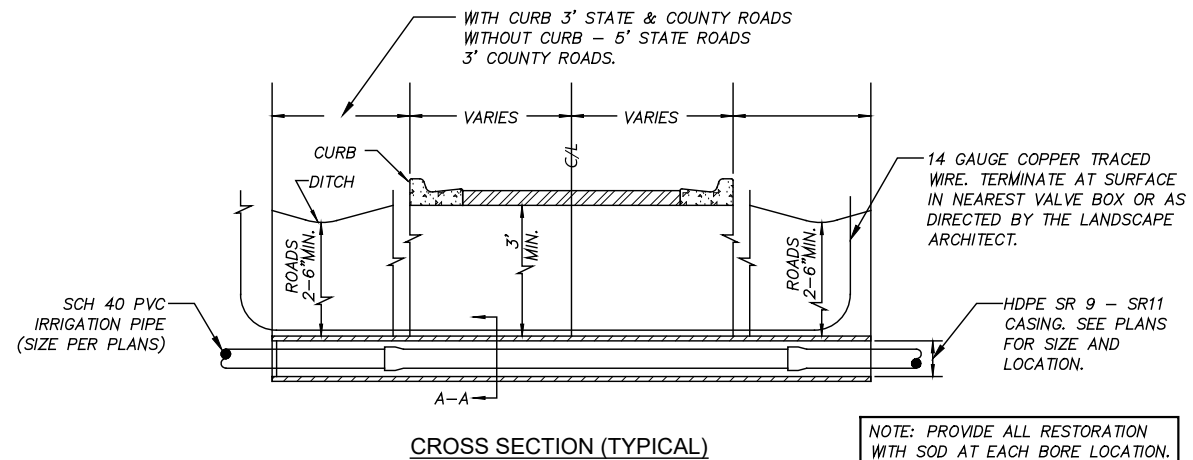


**3** TREE BUBBLER  
N.T.S.

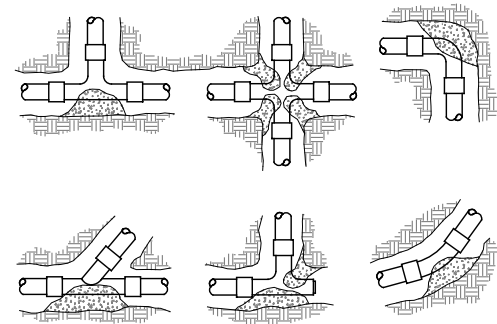
**NOTES:**  
CONTRACTOR TO PROVIDE A LOG OF SLEEVE INSTALLATION AT 5' INTERVALS. THE LOG SHALL INDICATE THE DEPTH AND DIRECTION OF THE SLEEVES AS INSTALLED. SUBMIT TO THE COUNTY IN TRIPPLICATE.  
DIRECTIONAL BORE SLEEVES SHALL BE HDPE CONTINUOUS FEED, FDOT CERTIFIED CONDUIT ON 600 FOOT REELS.  
ALL SLEEVES FOR WIRES SHALL BE INSTALLED WITH 1/8" DIA. NYLON PULL CORDS. ALL PULL CORDS SHALL BE 10' LONGER THAN THE SLEEVE OVERALL LENGTH AND SHALL BE SECURED TO EACH END OF THE SLEEVE. PULL CORDS SHALL BE LEFT IN PLACE FOLLOWING INSTALLATION BY THE CONTRACTOR.



SECTION A-A

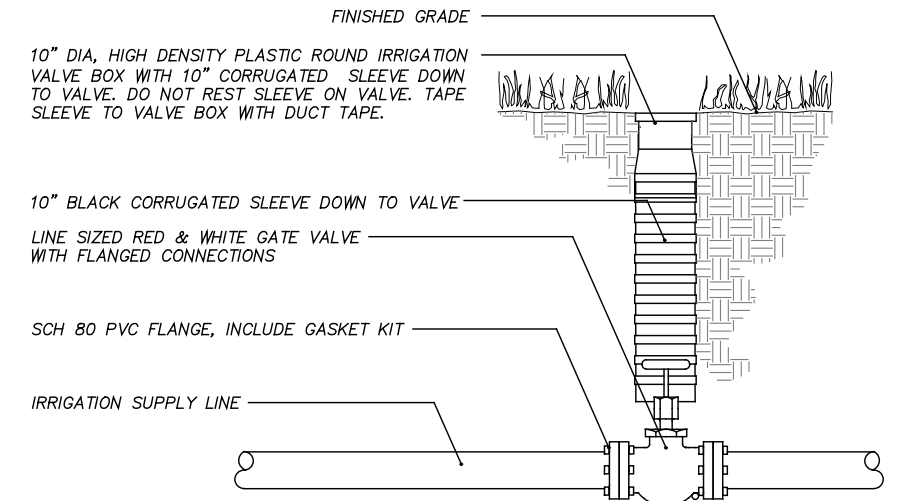


**4** DIRECTIONAL BORE DETAIL  
N.T.S.



THRUST BLOCKS SHALL BE CONSTRUCTED BEHIND ALL MAIN LINE FITTINGS, TEES, BENDS, REDUCERS, LINE VALVES, PLUGS, CAPS, ETC., IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS.  
THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH AND IN CASE THIS IS NOT POSSIBLE, THEY SHALL BE MADE CORRESPONDINGLY LARGER.  
THRUST BLOCKS SHALL BE SO PLACED AS NOT TO INTERFERE WITH REPAIR TO JOINTS AND COUPLINGS AND SHALL BE A CONCRETE MIX CONSISTING OF ONE PART CEMENT, TWO PARTS SAND, AND 5 PARTS GRAVEL, MIXED AND PLACED FAIRLY DRY SO THEY MAY BE SHAPED EASILY. NO PRECAST UNITS SHALL BE USED.  
PROVIDE & INSTALL 15# ROOFING FELT AS A SEPARATOR BETWEEN PIPE, FITTINGS & THRUST BLOCKS; PLACE CONCRETE DIRECTLY AGAINST FELT BUT NOT AGAINST PVC.  
THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILLING.

**5** THRUST BLOCKING  
N.T.S.



**6** MAINLINE ISOLATION GATE VALVE DETAIL  
N.T.S.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

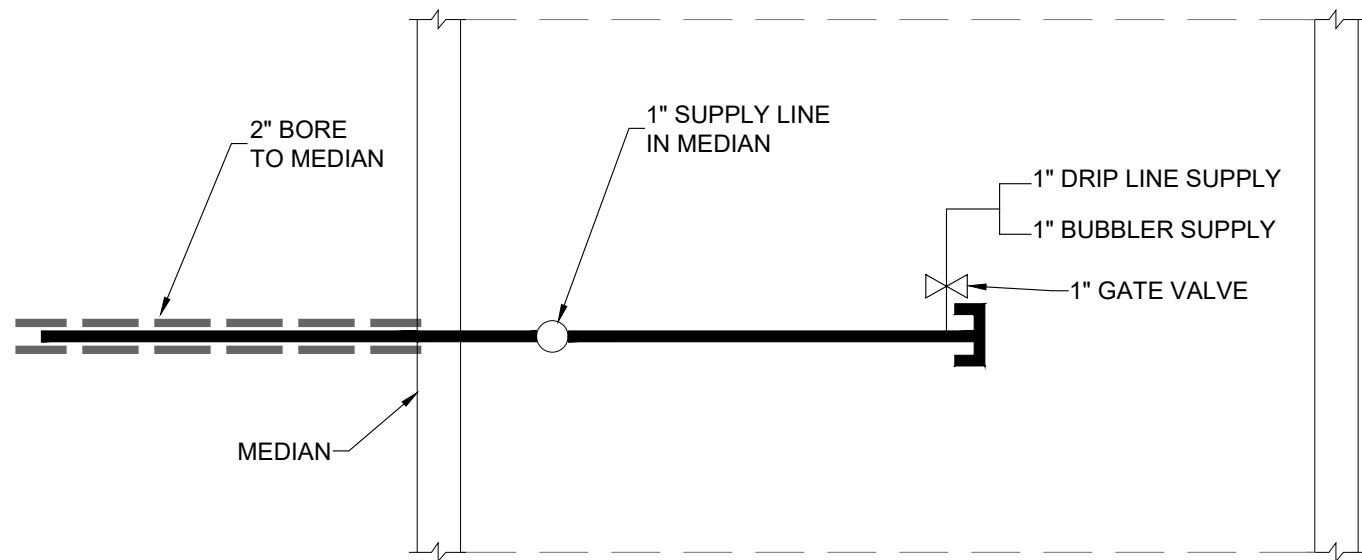
DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN PJS	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION DETAILS

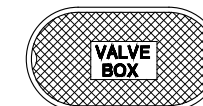
LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH, ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-36**

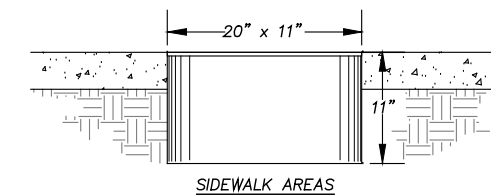
ANY SPECIFICATIONS WHICH INCLUDE PARTICULAR NAME-BRAND PRODUCTS MAY BE SUBSTITUTED WITH EQUAL PRODUCTS, IF APPROVED BY THE LANDSCAPE ARCHITECT AND THE TOWN OF LONGBOAT KEY PRIOR TO ORDERING.



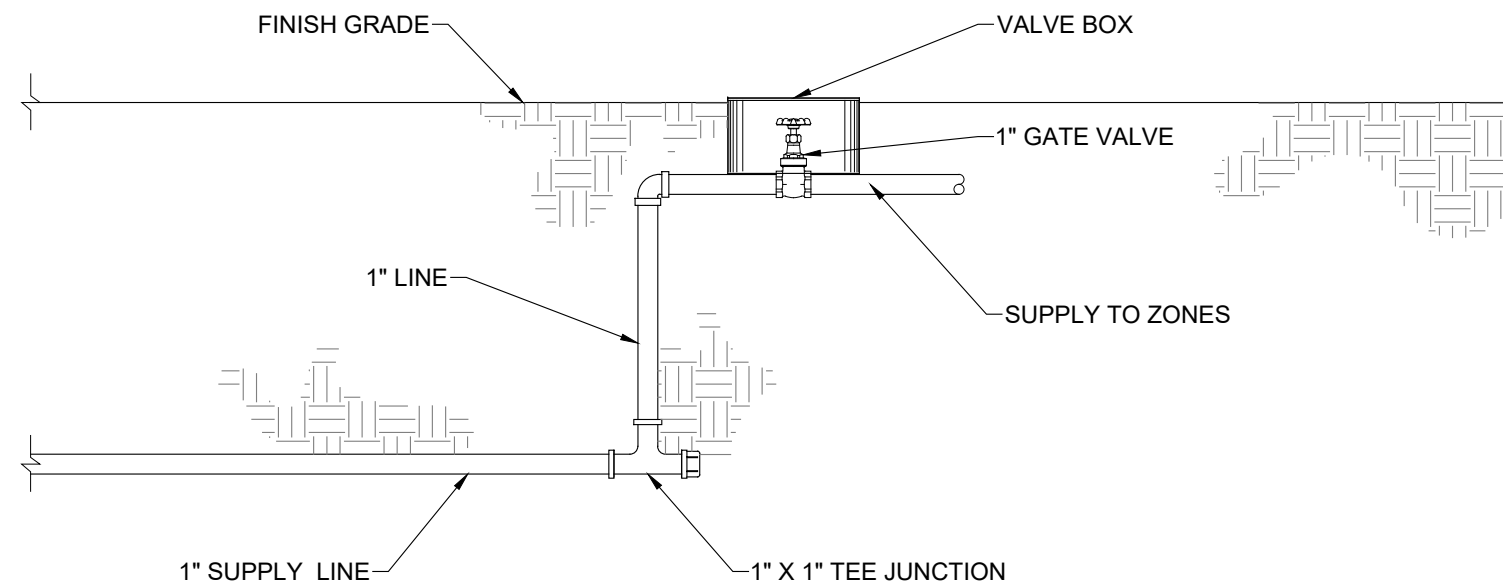
**7** SUPPLY LINE PLAN VIEW  
N.T.S.



CAST IRON BOX—RUSSELL FOUNDRY "ROME" OR BINGHAM AND TAYLOR OR AN APPROVED EQUAL IRRIGATION VALVE BOX. SET BOX FLUSH WITH SLOPE OF SIDEWALKS.



**9** IRRIGATION VALVE BOX IN CONCRETE AREAS  
N.T.S.



**8** SUPPLY LINE SECTION VIEW  
N.T.S.

FLOW RANGE	MINIMUM PIPE SIZE
1 TO 6 GPM	3/4"
7 TO 10 GPM	3/4"
11 TO 20 GPM	1"
21 TO 30 GPM	1-1/4"
31 TO 40 GPM	1-1/2"
41 TO 60 GPM	2"
61 TO 90 GPM	2-1/2"
91 TO 130 GPM	3"

PIPE SIZES ILLUSTRATED IN THE ABOVE CHART ARE MINIMUM ACCEPTABLE SIZES. CONTRACTOR SHALL FIELD SIZE ALL LATERAL PIPING TO KEEP ALL FRICTION LOSS VELOCITIES BELOW 5.0 DURING NORMAL OPERATION

**10** TYPICAL LATERAL PIPE SIZING REQUIREMENTS  
N.T.S.

No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja** LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 555-3199

DATE	CKD. BY	DATE
05/09/19	JA	05/19
DESIGN	PJS	05/19
SCALE NOTED	DWJA NO. 19-20	

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
IRRIGATION DETAILS

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-37**

# IRRIGATION NOTES:

ALL HEAD LAYOUT HAS BEEN DESIGNED TO PROVIDE SATURATION COVERAGE . ANY CHANGES MADE IN HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.

ALL SOLENOID VALVES, SURGE PROTECTORS, QUICK COUPLERS AND ISOLATION VALVES SHALL BE LOCATED WITHIN A NDS OR CARSON PLASTICS OR AN APPROVED EQUAL 11" x 17" SPECIFICATION GRADE VALVE BOXES. SPLICES ARE NEVER ALLOWED WITH THE EXCEPTION OF THE SOLENOID VALVES, SURGE PROTECTORS OR THE POINT OF CONNECTION TO THE CONTROLLER.

THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND UTILITIES. PRIOR TO EXCAVATION AND INSTALLATION OF IRRIGATION SYSTEM CONTRACTOR SHALL CHECK WITH THE JOB SUPERINTENDENT, SUNSHINE STATE ONE AND TOWN OF LONGBOAT KEY FOR LOCATION OF ALL UTILITIES A MINIMUM OF 48 HOURS BEFORE BEGINNING WORK. MAIN LINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE ENGINEER, IN CONJUNCTION WITH THE PROJECT CONSTRUCTION MANAGER.

ALL PRESSURIZED MAIN LINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. WHERE ELECTRIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.

SLEEVES AS SHOWN ON PLANS SHALL BE INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

MAIN LINE AND VALVES ARE SHOWN IN SCHEMATIC FORM. LOCATE AS NOTED ON PLANS. CLUSTER VALVES AS SHOWN, AND TO THE EXTENT POSSIBLE, LOCATE VALVES WITHIN PLANTING AREAS RATHER THAN TURF AREAS. ALL MAINLINE SHALL BE RUBBER GASKETED EXCEPT UNDER PAVEMENT WHERE IT SHALL BE CLASS 200 SOLVENT WELD PIPE.

LOCATE ALL VALVES MINIMUM 5'- 0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.

PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAIN LINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE.

ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.

NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL QUICK COUPLER VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "QC". LETTER OUTSIDE OF TIMECLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.

DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM THE DECODERS SHALL BE PROGRAMMED TO THE CORRESPONDING STATIONS ON THE IRRIGATION CONTROLLER AS PER THE IRRIGATION PROGRAM.

INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE. CONSTRUCTION SCHEDULES SHOULD BE SYNCHRONIZED BETWEEN ALL PARTIES.

CONTRACTORS ARE ADVISED TO REFER TO THE SPECIFICATIONS, CONTRACT DOCUMENTS, AND PLAN SHEETS FOR A MORE DETAILED DISCLOSURE OF PERFORMANCE STANDARDS AND REQUIREMENTS.

NO LATER THAN ONE (1) MONTH AFTER THE DATE OF SEMIFINAL INSPECTION FOR THE PROJECT OR AFTER ACCEPTANCE OF THE IRRIGATION INSTALLATION BY THE ENGINEER THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS-BUILT" IRRIGATION PLANS/DETAILS, SHOWING IN RED LINES, ANY AND ALL APPROVED CHANGES MADE TO THE IRRIGATION DURING THE PROJECT'S CONSTRUCTION FOR DISTRIBUTION TO THE PROJECT ENGINEER. TWO (2) SETS OF APPROVED DRAWINGS WILL BE FURNISHED TO THE CONTRACTOR FOR THIS PURPOSE AT THE PRE-CONSTRUCTION CONFERENCE.

REFER TO ALL PLAN SHEETS FOR HARDSCAPE COMPONENTS AND DETAILS. THIS INFORMATION IS NOT ILLUSTRATED COMPLETELY ON IRRIGATION PLANS FOR CLARITY.

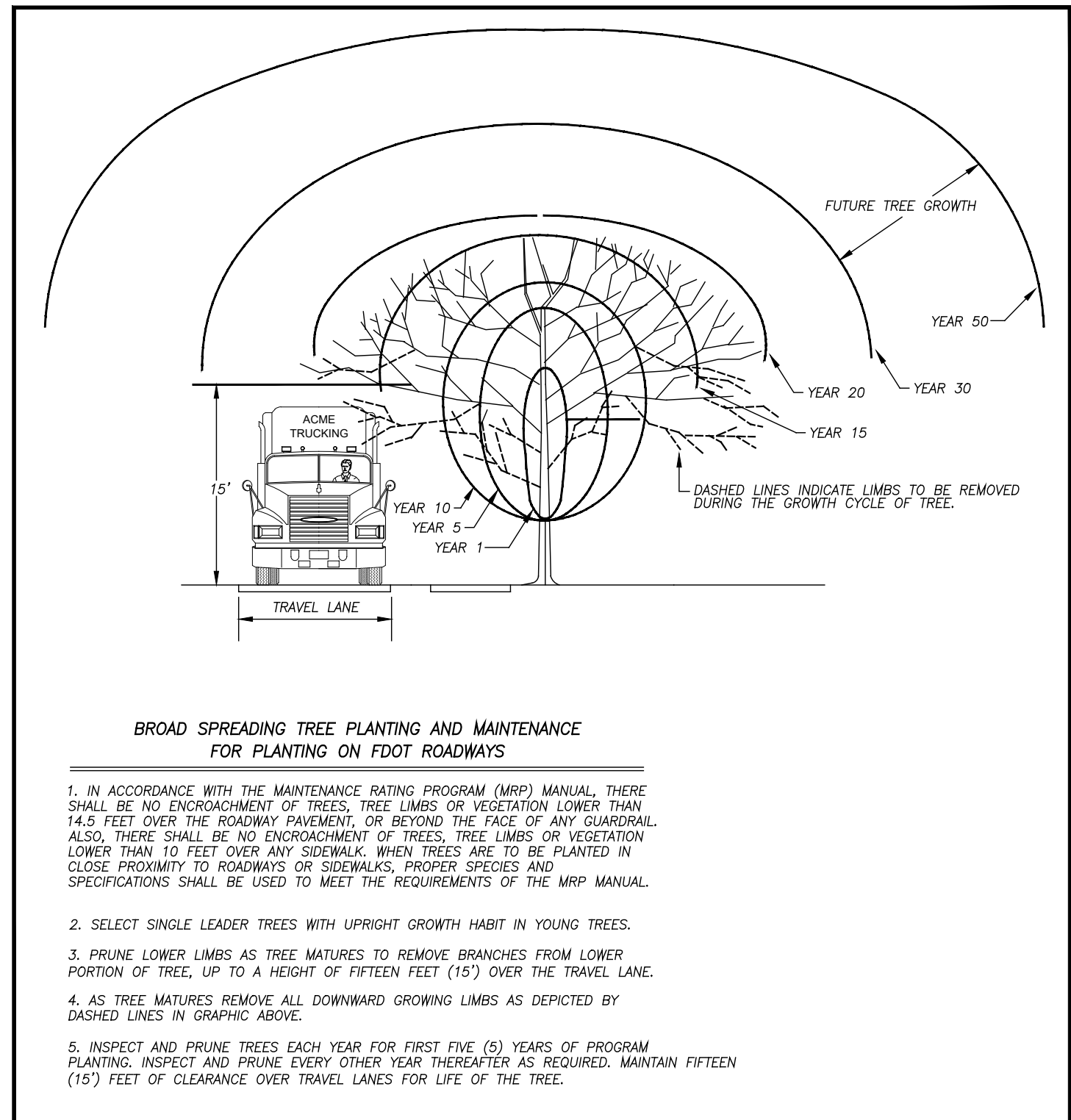
ALL MAIN LINE SHALL BE PRESSURE TESTED AT 125 PSI FOR TWO HOURS PRIOR TO PUTTING IRRIGATION SYSTEM INTO OPERATION. CONTRACTOR TO COORDINATE AND RECORD TESTING WITH PROJECT ENGINEER IN CONJUNCTION WITH LANDSCAPE ARCHITECT.

ANY SPECIFICATIONS WHICH INCLUDE PARTICULAR NAME-BRAND PRODUCTS MAY BE SUBSTITUTED WITH EQUAL PRODUCTS, IF APPROVED BY THE LANDSCAPE ARCHITECT AND THE TOWN OF LONGBOAT KEY PRIOR TO ORDERING.

No.	REVISION	DATE	BY	TOWN OF LONGBOAT KEY DEPARTMENT OF PUBLIC WORKS 600 GENERAL HARRIS STREET LONGBOAT KEY, FL., 34228	 DAVID W. JOHNSTON ASSOCIATES 690 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 555-3199	DATE	05/09/19	CKD BY	DATE	TOWN OF LONGBOAT KEY S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS IRRIGATION DETAILS	LANDSCAPE ARCHITECT OF RECORD	SHEET No.
						DRAWN	KSR	JA	05/19		PHILLIP J. SMITH ASLA, RLA #1096	LD-38
						DESIGN	PJS	PJS	05/19		REGISTERED LANDSCAPE ARCHITECT	
						SCALE NOTED		DWJA NO.	19-20			
5	PER FINAL CIVIL REVIEW	10/05/20	KSR									

# TECHNICAL MAINTENANCE PLAN

MAINTENANCE OPERATION	UNTIL FINAL ACCEPTANCE WEEKLY CYCLE BY CONTRACTOR											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MOWING 6" HEIGHT	X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXX	X	X
	CONTRACTOR TO MOW ON WEEKLY BASIS FROM APRIL TO OCTOBER (WARM SEASON) AND MONTHLY BASIS FROM NOVEMBER TO MARCH (COOL SEASON) AT CONSTRUCTION COMPLETION.											
WATERING	BACKFILL AND WATER-IN EACH PLANTING IN THREE LAYERS. (SEE PLANTING DETAILS.) COMPLETELY SATURATE AND COMPACT PLANTING HOLE TO COMPLETE INSTALLATION OPERATION. SET IRRIGATION TIME CLOCK OR HAND WATER UNTIL THE IRRIGATION TIME CLOCK IS FULLY FUNCTIONAL.											
WEEDING	X	X	X	X	X	X	X	X	X	X	X	X
	CONTRACTOR TO WEED ALL PLANTING BEDS AND INDIVIDUAL TREE WELLS EVERY TWO WEEKS. WEEDING BY HAND AND CHEMICAL HERBICIDE GLYPHOSATE OR EQUAL, APPLIED AT RATE OF 1-1/2 OZ. PER GALLON USING 15 GALLON BACKPACK SPRAYER UNDER SUPERVISION OF LICENSED OPERATOR FOR BEDS.											
PRUNING	AS NEEDED TO REMOVE MECHANICALLY DAMAGED BRANCHES DUE TO HANDLING. MUST MAINTAIN FLORIDA GRADE #1 FORM FOR FINAL ACCEPTANCE.											
FERTILIZATION	PALMS, TREES, AND SHRUBS TO BE FERTILIZED AT PLANTING, AND AGAIN 2 TIMES PER YEAR, USING 20-10-5 ANALYSIS, SLOW-RELEASE FERTILIZER (OR EQUAL) TABLETS. TABLETS TO BE UNIFORMLY PLACED AROUND ROOT BALL AT THE TOP OF FIRST LAYER OF PREPARED BACKFILL. SEE TABLE FOR TABLET SIZE AND APPLICATION RATE.											
GENERAL	CONTRACTOR TO RESTORE SAUCERS ONCE A MONTH. TREES OR PALMS TO BE RESET TO VERTICAL PLUMB AS NECESSARY. SUBMIT REPORTS BIWEEKLY RECORDING ALL MAINTENANCE TO THE PROJECT MANAGER AND LANDSCAPE ARCHITECT.											
IRRIGATION	IRRIGATION SPRINKLERS SHALL BE INSTALLED AND ADJUSTED, SO THAT NO SPRINKLER DIRECTLY SPRAYS WATER ONTO THE ROADWAY PAVEMENT OR SIDEWALK. MAINTAIN THE IRRIGATION SYSTEM TO BE OPERABLE AT ALL TIMES. MAINTAIN HEADS FOR COVERAGE AND FLOW. MAINTAIN ALL PIPING, WIRING, VALVES, HEADS AND CLOCK TO BE FULLY OPERATIONAL AT ALL TIMES. CHECK SYSTEM AT A MINIMUM OF EVERY TWO WEEKS.											
EDGING			X						X			
	EDGE ALL MEDIAN CURBS.											
MULCH 3" DEPTH MELALEUCA	MULCH IMMEDIATELY ON EACH PLANTING. AFTER WATERING-IN EACH PLANT.											



No.	REVISION	DATE	BY
5	PER FINAL CIVIL REVIEW	10/05/20	KSR

TOWN OF LONGBOAT KEY  
DEPARTMENT OF PUBLIC WORKS  
600 GENERAL HARRIS STREET  
LONGBOAT KEY, FL., 34228

**dwja**  
LANDSCAPE ARCHITECTS  
**DAVID W. JOHNSTON ASSOCIATES**  
660 S. ORANGE AVE. SUITE 202 • SARASOTA, FL 34236 • (941) 566-3166

DATE	05/09/19	CKD. BY	DATE
DRAWN	KSR	JA	05/19
DESIGN	PJS	PJS	05/19
SCALE NOTED	DWJA NO. 19-20		

TOWN OF LONGBOAT KEY  
S.R. 789 (GULF OF MEXICO DR.) MEDIAN IMPROVEMENTS  
**TECHNICAL MAINTENANCE PLAN**

LANDSCAPE ARCHITECT OF RECORD  
PHILLIP J. SMITH ASLA, RLA #1096  
REGISTERED LANDSCAPE ARCHITECT

SHEET No.  
**LD-39**